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RULE AS PRELIMINARILY ADOPTED AND PROPOSED FOR FINAL ADOPTION WITH SUGGESTED CHANGES

TITLE 326 AIR POLLUTION CONTROL BOARD

LSA Document #98-163

DIGEST

Amends 326 IAC 6-1-10.1, Lake County PM₁₀ emission requirements, and 326 IAC 7-4-1.1, Lake County SO₂ emissions requirements, for Northern Indiana Public Service Company's D.H. Mitchell Generating Station. The proposed rule provides for alternative operating scenarios. Effective 30 days after filing with the secretary of state.

HISTORY

First Notice of Comment Period: April 1, 1997, Indiana Register (20 IR 1896).

Second Notice of Comment Period and Notice of First Hearing: October 1, 1997, Indiana Register (21 IR 223).

Date of First Hearing: February 4, 1998.

Proposed Rule: April 1, 1998, Indiana Register (21 IR 2469).

Notice of Final Hearing: May 1 1998, Indiana Register (21 IR 3027).

Notice of Recall of Proposed Rule: June 1, 1998, Indiana Register (21 IR 3368).

Change in Notice of Final Hearing: June 1, 1998, Indiana Register (21 IR 3380).

Notice of First Hearing for Re-Preliminary Adoption: June 1, 1998, Indiana Register (21 IR 3379).

Date of Hearing for Re-Preliminary Adoption: July 1, 1998.

Proposed Rule, Third Notice of Comment Period, and Notice of Hearing to Final Adopt: August 1, 1998, Indiana Register (21 IR 4259).

Date of Hearing for Final Adoption: November 4, 1998.

326 IAC 6-1-10.1

326 IAC 7-4-1.1

SECTION 1. 326 IAC 6-1-10.1, AS AMENDED AT 21 IR 2354, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

326 IAC 6-1-10.1 Lake County PM₁₀ emission requirements

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11
Affected: IC 13-15; IC 13-17

Sec. 10.1. (a) This section applies to the sources, facilities, and operations listed in subsection (d).

(b) The following definitions apply throughout this section:

(1) "lbs/hr" means pounds of particulate matter emissions emitted per one (1) sixty (60) minute period.

(2) "lbs/MMBtu" means pounds of particulate matter emissions per million British thermal units heat input of fuels fired in the source, unless otherwise stated.

(3) "lbs/ton" means pounds of particulate matter emissions per ton of product output from the particular facility, unless otherwise stated. Byproducts which may be sold as product shall not be included under the term "product".

(4) "gr/dscf" means grains of particulate matter per dry standard cubic foot of exhaust air.

(c) All emission limits in this section shall be PM₁₀ limits, unless otherwise stated.

(d) The following sources shall comply with the corresponding PM₁₀ and total suspended particulates (TSP) emission limitations and other requirements in this section consistent with the provisions as applicable in subsection (k). Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emission limitations apply to one (1) stack serving the multiple units specified when the facility description notes "stack serving", and to each stack of multiple stacks serving multiple facilities when the facility description notes "each stack serving".

<u>Source</u>	<u>Emission Limit (Units)</u>	<u>Emission Limit (lbs/hr)</u>
(1) A. METZ		
Asphalt batch plant	0.180 lbs/ton	27.00
(2) ADVANCED ALUMINUM PRODUCTS		
Reverberatory furnace number 1	0.060 lbs/ton	0.970
Reverberatory furnace number 2	0.142 lbs/ton	0.430
Reverberatory furnace number 3	0.145 lbs/ton	0.510
Reverberatory furnace number 4	0.145 lbs/ton	0.510
Reverberatory furnace number 5	0.130 lbs/ton	1.137
(3) AMERICAN CAN		
Stack serving incinerators (3 units)	0.007 lbs/MMBtu	0.310
Coil coater	0.007 lbs/MMBtu	0.290
(4) AMERICAN MAIZE PRODUCTS (AMAIZO)		
Number 93 warehouse central vacuum cleaning system	2.000 lbs/ton	0.050
First stage germ dryer exhaust	0.001 lbs/ton	0.010
Second stage germ dryer exhaust	0.002 lbs/ton	0.010
Activated carbon regenerating furnace	0.225 lbs/ton TSP	0.19 TSP
Stack serving boiler numbers 6 and 7	0.102 lbs/MMBtu	32.590
Stack serving boiler numbers 8 and 10	0.102 lbs/MMBtu	24.442
Bulk carbon/bulk filter aid system	0.080 lbs/ton	1.400

Each stack serving bulk corn starch storage bin numbers 20 through 36	0.012 lbs/ton	0.082
Equipment conveying corn dirt to dirt storage silo	0.050 lbs/ton	0.205
Corn elevator central vacuum system	0.040 lbs/ton	0.100
Corn elevator dust control system number 1	0.200 lbs/ton	0.085
Corn elevator dust control system number 2	0.200 lbs/ton	0.140
Corn syrup solids conveyor equipment	0.005 lbs/ton	0.020
Starch conveying system number 47	0.018 lbs/ton	0.054
Corn syrup solids dust collection system number 2	0.262 lbs/ton TSP	1.76 TSP
Corn syrup spray dryer number 1 cooler system	0.444 lbs/ton TSP	2.71 TSP
Corn syrup spray dryer number 2 cooler system	0.444 lbs/ton TSP	2.71 TSP
Dextrin bulk loading equipment	0.011 lbs/ton	0.340
Dextrin conveying system number 48	0.018 lbs/ton	0.54
Each stack serving dextrin manufacturing equipment system numbers 1 through 7	0 lbs/ton	0.00
Dried corn syrup conveying system, frodex	0.004 lbs/ton	0.034
Feed cooling system number 2	0.276 lbs/ton	4.37
Feed flash dryer number 1	0.140 lbs/ton	2.82
Feed flash dryer number 2	0.219 lbs/ton	4.42
Feed milling system	0.033 lbs/ton	0.740
Feed pelletizing A	0.010 lbs/ton	0.370
Feed pelletizing B	0.023 lbs/ton	0.855
Feed pelletizing C	0.023 lbs/ton	0.855
Feed pelletizing D	0.017 lbs/ton	0.600
Finished feed conveying equipment	0.091 lbs/ton	2.73
Finished germ conveying equipment	0.251 lbs/ton	0.375
Finished gluten conveying system	0.020 lbs/ton	0.082
Gluten ring dryer scrubber	0.172 lbs/ton TSP	4.72 TSP
New corn syrup spray dryer cooler system number 2	0.847 lbs/ton	3.26 TSP
Stack serving special starch (P.G.) manufacturing equipment system number 4 (2 units)	0.200 lbs/ton	0.400
Receiver for first stage germ dryer	0.008 lbs/ton	0.06
Receiver for second stage germ dryer	0.169 lbs/ton	0.660
Each stack serving heil rotary feed dryer numbers 1 through 5	0.013 lbs/ton	0.698
Special starch (P.G.) manufacturing equipment system number 1	0.050 lbs/ton	0.019
Special starch (P.G.) manufacturing equipment system number 2	1.000 lbs/ton	0.175
Special starch (P.G.) manufacturing equipment system number 3C (½ system number 3)	0.400 lbs/ton	0.015
Special starch (P.G.) manufacturing equipment system number 3D (½ system number 3)	0.15 lbs/ton	0.015
Stack serving starch bulk loading equipment (point A)	0.02 lbs/ton	0.600
Stack serving starch bulk loading equipment (point B)	0.007 lbs/ton	0.24
Starch conveying system number 46	0.150 lbs/ton	0.540
Starch flash feed dryer number 1 scrubber	0.0 lbs/ton	0.0
Starch milling system number 1	0.5 lbs/ton	0.5
Starch milling system number 2	0.149 lbs/ton	0.5
Starch ring dryer number 2 scrubber	0.742 lbs/ton TSP	10 TSP
Starch ring dryer number 3 scrubber	0.035 lbs/ton TSP	1.12 TSP
Starch vacuum cleanup equipment	2.000 lbs/ton	0.150

Waxy bulk cornstarch storage bins numbers 95 through 98 (only 1 may operate at a time)	0.008 lbs/ton	0.180
Waxy feed conveyor system	0.200 lbs/ton	0.140
Waxy feed drum dryer scrubber	0.115 lbs/ton TSP	11.12 TSP
Waxy feed milling equipment	0.200 lbs/ton	0.140
Waxy germ equipment conveying to cooler building	0.200 lbs/ton	0.600
Starch dryer number 4, building 91	0.35 lbs/ton	3.5 TSP
Dextrin incoming starch, building 46	0.004 lbs/ton	0.024
BCD dryer, building 127	0.227 lbs/ton	0.37
Four products blending systems, building 93	0.020 lbs/ton	0.240
Stack serving starch packing systems numbers 1 and 2, building 93	0.004 lbs/ton	0.120
Each stack serving bag dump numbers 1 and 2	0.690 lbs/ton	0.190
Sulfate bag dumping	1.520 lbs/ton	0.190
Frodex semibulk packing system, building 93	0.250 lbs/ton	0.150
Dextrin starch cooler, building 34	0.017 lbs/ton	0.100
Dextrin incoming starch, building 34	0.006 lbs/ton	0.095
Dextrin starch reactor, building 34	0.020 lbs/ton	0.110
Dextrin storage hopper, building 34	0.042 lbs/ton	0.250
(5) AMERICAN STEEL) EAST CHICAGO		
Sand kiln and cooler	0.636 lbs/ton	16.29
Sandheater mixing	0.520 lbs/ton	11.44
Electric induction furnaces (2 units)	0.104 lbs/ton	1.248
#2 tumblast with dust collector	0.145 lbs/ton of product	0.678
#3 tumblast with dust collector	0.145 lbs/ton of product	0.678
Shakeout dust collector	0.012 lbs/ton of product	0.384
(6) AMERICAN STEEL FOUNDRY) HAMMOND		
Stack serving coil spring grinder numbers 3-0386 and 3-0389	1.083 lbs/ton	0.045
Stack serving coil spring grinder number 3-0244	0.021 lbs/ton	0.040
Tub grinder number 3-0388	0.015 lbs/ton	2.00
Coil spring grinder number 3-0247	0.019 lbs/ton	0.03
Coil spring grinder number 3-0249	3.792 lbs/ton	1.82
Coil spring grinders numbers 3-0385, 3-295, and 3-0233	0.019 lbs/ton	0.05
Shot blast peener number 3-1804	0.011 lbs/ton	0.06
Shot blast peener number 3-1811	0.018 lbs/ton	0.06
Shot blast peener number 3-1821	0.016 lbs/ton	0.06
Shot blast peener number 3-1823	0.016 lbs/ton	0.06
Small coil manufacturing (ESP number 3-3024)	0.014 lbs/ton	0.02
Medium coil manufacturing (ESP number 3-3027)	0.700 lbs/ton	2.10
Large coil manufacturing (ESP number 3-3028)	0.700 lbs/ton	3.50
Miscellaneous coil manufacturing (ESP number 3-3026)	0.700 lbs/ton	1.05
(7) AMOCO OIL, WHITING REFINERY		
Number 1 CRU, F-101 feed preheater	0.004 lbs/MMBtu	0.267
Stack serving number 1 CRU, F-102, F-201, F-202 heaters	0.004 lbs/MMBtu	0.290
Stack serving number 1 power station, boiler numbers 1, 2, 3, and 4	0.016 lbs/MMBtu	15.809
Stack serving number 1 power station, boiler numbers 5, 6, 7, and 8	0.016 lbs/MMBtu	13.244

Stack serving number 11 pipe still furnaces H-101, H-102, H-103, H-104, coke preheaters	0.004 lbs/MMBtu	0.741
Number 11 pipe still, H-1X heater	0.031 lbs/MMBtu	6.867
Number 11 pipe still, H-2 vacuum heater	0.032 lbs/MMBtu	1.440
Number 11 pipe still, H-200 crude charge	0.032 lbs/MMBtu	7.866
Number 11 pipe still, H-3 vacuum heater	0.031 lbs/MMBtu	1.704
Number 11 pipe still, H-300 furnace	0.031 lbs/MMBtu	4.931
Stack serving number 12 pipe still, H-1A and H-1B preheaters and H-2 vacuum heater	0.025 lbs/MMBtu	16.348
Each stack serving number 12 pipe still, H-1CN and H-1CS crude preheater	0.004 lbs/MMBtu	0.444
Number 12 pipe still, H-1CX crude preheater	0.004 lbs/MMBtu	0.924
Number 2 isomerization, F-7 furnace	0.004 lbs/MMBtu	0.085
Number 2 isomerization, H-1 feed heater furnace	0.004 lbs/MMBtu	0.704
Each stack serving number 3 power station, boiler numbers 1, 2, 3, 4, and 6	0.030 lbs/MMBtu	17.49
Number 3 ultraformer, F-7 furnace	0.004 lbs/MMBtu	0.085
Number 3 ultraformer, H-1 feed heater furnace	0.004 lbs/MMBtu	0.852
Number 3 ultraformer, H-2 feed heater furnace	0.004 lbs/MMBtu	0.685
Number 3 ultraformer, waste heat recovery unit	0.004 lbs/MMBtu	1.537
Stack serving number 37 pipe still, B-1 feed preheater, B-2 wax fractioner	0.018 lbs/MMBtu	1.903
Stack serving number 4 ultraformer, F-1 ultrafiner furnace F-8A and F-8B reboilers	0.004 lbs/MMBtu	1.459
Number 4 ultraformer, F-2 preheater furnace	0.004 lbs/MMBtu	1.059
Number 4 ultraformer, F-3 number 1 reheat furnace	0.004 lbs/MMBtu	0.896
Stack serving number 4 ultraformer, F-4 number 2 reheat furnace, F-5 number 3 reheat furnace, and F-6 number 4 reheat furnace	0.004 lbs/MMBtu	1.060
Number 4 ultraformer, F-7 furnace	0.004 lbs/MMBtu	0.159
Aromatics recovery unit, F-200A furnace	0.004 lbs/MMBtu	0.924
Aromatics recovery unit, F-200B furnace	0.004 lbs/MMBtu	0.924
Blending oil desulphurization, F-401 furnace	0.004 lbs/MMBtu	0.130
Cat feed hydrotreating unit	0.004 lbs/MMBtu	0.246
F-1 Berry Lake distillate heater	0.004 lbs/MMBtu	0.048
F-2 Steiglitz Park residual heater	0.008 lbs/MMBtu	0.208
Stack serving heavy oils unit, H-101, H-201, H-202	0.004 lbs/MMBtu	0.030
NMP extraction unit, B-105 furnace	0.023 lbs/MMBtu	1.174
NMP extraction unit, B-106 furnace	0.004 lbs/MMBtu	0.352
Oil hydrotreating unit	0.004 lbs/MMBtu	0.059
Sulfur recovery unit incinerator	0.004 lbs/MMBtu	0.090
Asphalt oxidizer number 1	0.000 lbs/ton	0.000
Asphalt oxidizer number 2	0.000 lbs/ton	0.000
Asphalt oxidizer number 3	0.000 lbs/ton	0.000
Tail gas unit (new)	0.110 lbs/ton	0.103
Wastewater sludge fluid bed incinerator	0.173 lbs/ton	6.84
	based on 79,000 lbs/hr fluidizing air flow	
FCU 500	1.220 lbs/1,000 lbs coke burned	73.20
FCU 600	1.10 lbs/1,000 lbs coke burned	55.00

DDU WB-301	0.004 lbs/MMBtu	0.250
DDU WB-302	0.004 lbs/MMBtu	0.240
Hydrogen unit B-1	0.009 lbs/MMBtu	3.340
(8) ASSOCIATED BOX		
Wood chip fired space heating boiler	0.810 lbs/MMBtu	4.450
(9) ATLAS BLACKTOP		
Drum mix asphalt plant	0.025 lbs/ton	4.440
(10) BUCKO CONSTRUCTION		
Rotary dryer	0.017 lbs/hr	4.440
(11) C and A WALLCOVERING		
Scotch marine boiler	0.007 lbs/MMBtu	0.095
(12) CERTIFIED CONCRETE INC.		
Central mix	0.0013 lbs/ton	0.350
(13) COMMONWEALTH EDISON COMPANY		
Unit 3	0.100 lbs/MMBtu	213.00
Unit 4	0.100 lbs/MMBtu	356.80
(14) E.I. DUPONT		
Sodium silicate furnace	1.439 lbs/ton	6.0
(15) EAST CHICAGO INCINERATOR		
Each stack serving incinerator (2 units)	0.010 gr/dscf	3.470
(16) GENERAL REFRACTORY		
Ball milling storage	0.041 lbs/ton	0.410
Crushing and sizing	0.012 lbs/ton	0.460
Material handling system	0.003 lbs/ton	0.220
Material loading	0.006 lbs/ton	0.150
Material weighing	0.064 lbs/ton	0.350
Mixing and packaging	0.354 lbs/ton	2.480
Sizing, conveying, and storage	0.029 lbs/ton	0.580
(17) GEORGIA PACIFIC		
Boiler number 1	0.129 lbs/MMBtu	9.380
(18) GLOBE INDUSTRIES		
Stack serving asphalt saturators (2 units)	0.060 lbs/ton of product	4.500
(19) HAMMOND LEAD PRODUCTS) HALOX PLANT		
Stack 17-S-40	0.030 gr/dscf	2.120
Stack 20-S-36	0.022 gr/dscf	0.395
Stack 20-S-41	0.022 gr/dscf	0.450
Stack 20-S-37	0.022 gr/dscf	0.200
Stack 20-S-38	0.022 gr/dscf	0.087
Stack 17-S-25	0.030 gr/dscf	2.120
Stack 20-S-42	0.022 gr/dscf	0.200
Stack 20-S-43	0.022 gr/dscf	0.087
Stack 20-S-39	0.022 gr/dscf	0.496
Stack 20-S-44	0.022 gr/dscf	0.496
Stack 13-S-48	0.022 gr/dscf	0.471
Stack 14-S-45	0.022 gr/dscf	0.471
(20) HAMMOND LEAD) HALSTAB PLANT		
Stack S-1	0.022 gr/dscf	0.220

Stack S-2	0.022 gr/dscf	0.080
Stack S-4	0.022 gr/dscf	1.460
Stack S-5	0.022 gr/dscf	1.030
Stacks S-6, S-7, and S-8, each stack	0.022 gr/dscf	0.570
Stacks S-9, S-10, S-11, S-12, S-13, S-14, S-15, and S-16, each stack	0.022 gr/dscf	0.200
Stack S-17	0.022 gr/dscf	1.990
(21) HAMMOND LEAD PRODUCTS) LEAD PLANT		
Stack 1-S-54	0.0 gr/dscf	0.000
Stack 4A-S-8	0.022 gr/dscf	0.250
Stack 14-S-16	0.022 gr/dscf	0.250
Stack 1-S-2	0.022 gr/dscf	0.250
Stack 1-S-26	0.022 gr/dscf	0.250
Stack 16-S-56	0.022 gr/dscf	1.000
Stack 1-S-52	0.022 gr/dscf	1.000
Stack 1-S-27	0.022 gr/dscf	0.290
Stack 4-S-35	0.022 gr/dscf	0.570
Stack 6-S-33	0.022 gr/dscf	0.900
Stack 4B-S-34	0.022 gr/dscf	0.400
Stack 6-S-47	0.022 gr/dscf	0.400
V-1	0.022 gr/dscf	1.000
Stack 14-S-15	0.022 gr/dscf	0.320
(22) HARBISON WALKER		
Each stack serving tunnel kiln numbers 1 (S-6) and 2 (S-3)	1.36 lbs/ton	4.50
Each stack serving tunnel kiln numbers 1 (S-6) and 2 (S-3) if only one kiln is in operation	1.36 lbs/ton	8.40
Lanley oven (S-7)	0.210 lbs/ton	0.840
Basic dryer (stack 8)	0.916 lbs/ton	3.020
Chrome ore crushing (D-9)	0.024 lbs/ton	0.490
Chrome ore rotary dryer (D-10)	0.032 lbs/ton	0.640
Chrome ore handling (D-11) and storage	0.020 lbs/ton	0.410
Chrome ore screening (D-12) and milling	0.078 lbs/ton	1.240
Chrome ore finished (D-13) material handling and storage	0.044 lbs/ton	0.700
Magnesite unloading and crushing (D-18)	0.017 lbs/ton	0.580
Magnesite material handling and storage (D-2)	0.012 lbs/ton	0.410
Magnesite screening and milling (D-8)	0.051 lbs/ton	1.280
Specialty magnesite handling system (D-16)	0.097 lbs/ton	0.260
Magnesite chrome ore mixer number 3 (D-6)	0.033 lbs/ton	0.230
Magnesite chrome ore mixer number 2 and flat mixer (D-5)	0.033 lbs/ton	0.460
Magnesite chrome ore mixer number 1 (D-4)	0.033 lbs/ton	0.230
Magnesite carbon mixers (D-7)	0.054 lbs/ton	0.460
Magnesite smooth roll crusher system (D-15)	0.067 lbs/ton	0.500
Magnesite auxiliary milling system (D-14)	0.086 lbs/ton	0.170
(23) INLAND STEEL		
Number 4 slab mill scarfer	0.039 lbs/ton	21.97
Number 2A bloomer scarfer	0.107 lbs/ton	10.70
Mold foundry baghouse	0.011 gr/dscf	26.00
Sinter plant discharge end and cooler baghouse	0.01 gr/dscf TSP	11.70 TSP
Sinter plant windbox baghouse	0.007 gr/dscf TSP	17.00 TSP

Lime plant silo baghouses	0.085 lbs/ton	5.530
Lime plant firing and kiln baghouses	0.110 lbs/ton	7.149
Number 4 roll shop ervin blaster/baghouse	0.0052 gr/dscf TSP	0.210 TSP
Number 4 roll shop wheelabrator baghouse	0.0052 gr/dscf TSP	0.260 TSP
Number 4A roll shop ervin blaster/baghouse	0.0052 gr/dscf TSP	0.210 TSP
Number 4A roll shop pangborn blaster/baghouse	0.0052 gr/dscf TSP	0.260 TSP
Number 2 roll shop pangborn blaster/baghouse	0.0052 gr/dscf TSP	0.270 TSP
Number 6 roll shop roll blaster/baghouse	0.0052 gr/dscf TSP	0.200 TSP
Electric shop blasters/baghouses	0.0052 gr/dscf TSP	1.070 TSP
Number 11 coke battery preheaters (2 units)	0.00	0.00
Number 11 coke battery shed baghouse	0.00	0.00
Number 6 coke battery underfire stack	0.00	0.00
Number 7 coke battery underfire stack	0.00	0.00
Number 8 coke battery underfire stack	0.00	0.00
Number 9 coke battery underfire stack	0.00	0.00
Number 10 coke battery underfire stack	0.00	0.00
Number 11 coke battery underfire stack	0.00	0.00
Number 7B blast furnace canopy baghouse	0.003 gr/dscf	11.22
Number 7 blast furnace stockhouse pellet baghouse	0.0052 gr/dscf	4.00
Number 7 blast furnace casthouse baghouse	0.011 gr/dscf TSP	22.00 TSP
Number 7 blast furnace coke screening baghouse	0.007 gr/dscf TSP	4.200 TSP
Number 7 blast furnace stockhouse coke baghouse	0.01 gr/dscf TSP	2.00 TSP
Number 1 blast furnace stoves (4 units)	0.000	0.000
Number 2 blast furnace stoves (4 units)	0.000	0.000
Number 2 basic oxygen furnace number 10 furnace stack	0.058 lbs/ton TSP	16.00 TSP
Number 2 basic oxygen furnace number 20 furnace stack	0.058 lbs/ton TSP	16.00 TSP
Number 2 basic oxygen furnace caster fume collection baghouse	0.0052 gr/dscf TSP	2.00 TSP
Number 2 basic oxygen furnace ladle metallurgical station baghouse	0.0052 gr/dscf TSP	2.00 TSP
Number 2 basic oxygen furnace secondary ventilation system scrubber	0.015 gr/dscf TSP	12.00 TSP
Number 2 basic oxygen furnace tundish dump baghouse	0.0052 gr/dscf TSP	2.200 TSP
Number 2 basic oxygen furnace charging aisle reladling and desulfurization baghouse	0.011 gr/dscf TSP	28.30 TSP
Number 2 basic oxygen furnace truck and ladle hopper baghouse	0.0052 gr/dscf TSP	0.800 TSP
Number 2 basic oxygen furnace flux storage and batch baghouse	0.0052 gr/dscf TSP	0.530 TSP
Number 4 basic oxygen furnace reladling and desulfurization baghouse	0.0052 gr/dscf TSP	8.26 TSP

Number 4 basic oxygen furnace scrubber stack (steelmaking)	0.187 lbs/ton TSP	100.00 TSP
Number 4 basic oxygen furnace vacuum degassing baghouse	0.01 gr/dscf TSP	4.280 TSP
Number 4 basic oxygen furnace secondary ventilation system baghouse	0.006 gr/dscf TSP	22.30 TSP
Stack serving blast furnace stove, number 5 (3 units)	0.016 lbs/MMBtu	4.70
Stack serving blast furnace stove, number 6 (4 units)	0.016 lbs/MMBtu	3.64
Stack serving blast furnace stove, number 7 (3 units)	0.0076 lbs/MMBtu	6.32
Stack serving "A" blast furnace stoves (3 units)	0.021 lbs/MMBtu	5.090
Stack serving "B" blast furnace stoves (3 units)	0.021 lbs/MMBtu	5.090
100 inch plate mill reheat furnace	0.078 lbs/MMBtu	13.74
Number 2 bloom mill soaking pit, numbers 1 through 4	0.000	0.000
Number 2 bloom mill soaking pit numbers 5 through 16 collective	0.000	0.000
Number 2 bloom mill soaking pit numbers 19 through 20 collective	0.000	0.000
Number 4 slabber soaking pit numbers 1 through 18 collective	0.0 lbs/MMBtu	0.0
Number 4 slabber soaking pit numbers 19 through 45 collective	0.006 lbs/MMBtu	1.750
Stack serving number 2AC station boiler numbers 207 through 210	0.000	0.000
Stack serving number 2AC station boiler numbers 211 through 213	0.018 lbs/MMBtu	16.20
Stack serving number 3AC station boiler numbers 301 through 304	0.018 lbs/MMBtu	16.20
Number 3AC station boiler number 305	0.018 lbs/MMBtu	5.400
Stack serving number 4AC station boiler number 401 through 404	0.042 lbs/MMBtu	76.578
Number 4AC station boiler number 405	0.028 lbs/MMBtu	18.78
Stack serving number 5 boiler house (3 units)	0.013 lbs/MMBtu	18.05
Electric arc furnace shop direct shell evacuation system baghouse roof monitor	0.0052 gr/dscf	17.14
Electric arc furnace shop ladle metallurgical station baghouse	0.01 gr/dscf	0.820
Coal conveyor transfer baghouse A	0.003 gr/dscf	0.17
Blending system baghouse B	0.003 gr/dscf	0.54
Coal storage bin baghouse C	0.003 gr/dscf	0.23
Coal pulverizer baghouse D	0.0015 gr/dscf	0.93
Coal pulverizer baghouse E	0.0015 gr/dscf	0.93
Number 7 blast furnace coal storage bin baghouse F	0.003 gr/dscf	0.09
Number 7 blast furnace coal storage bin baghouse G	0.003 gr/dscf	0.09
Numbers 5 and 6 blast furnace coal storage bin baghouse H	0.003 gr/dscf	0.09
(24) KEIL CHEMICAL		
Clever brooks boiler B-4	0.007 lbs/MMBtu	0.09
Clever brooks boiler B-5	0.007 lbs/MMBtu	0.14
VA power B-3 boiler	0.007 lbs/MMBtu	0.04
Chlorinated wax process	0.001 lbs/ton	0.003
Pyro-chek 68PB1	0.052 lbs/ton	0.030
Pyro-chek 77PB2	0.122 lbs/ton	0.040
Sulfurized fat process	0.157 lbs/ton	0.230
(25) KEYES FIBER		
Molded pulp dryer number 1	0.546 lbs/ton	0.210
Molded pulp dryer number 2	0.546 lbs/ton	0.250
Molded pulp dryer number 3	0.546 lbs/ton	0.290
Molded pulp dryer number 4	0.546 lbs/ton	0.290
Molded pulp dryer number 5	0.546 lbs/ton	0.130
Molded pulp dryer number 6	0.546 lbs/ton	0.130
Molded pulp dryer number K34	0.546 lbs/ton	0.130
Molded pulp dryer number 8	0.546 lbs/ton	0.350

Molded pulp dryer number 9	0.546 lbs/ton	0.410
Molded pulp dryer number 10	0.546 lbs/ton	0.350
Babcock and Wilcox boiler	0.007 lbs/MMBtu	0.050
(26) LTV STEEL CORPORATION		
Stack serving number 3 blast furnace stoves	0.027 lbs/MMBtu	11.73
Stack serving number 4 blast furnace stoves	0.027 lbs/MMBtu	12.93
Stack serving hot strip mill slab heat furnace numbers 1, 2, and 3	0.086 lbs/MMBtu	36.56
Utility boiler number 3	0.066 lbs/MMBtu	12.85
Utility boiler number 4	0.066 lbs/MMBtu	12.85
Utility boiler number 5	0.066 lbs/MMBtu	25.69
Utility boiler number 6	0.066 lbs/MMBtu	25.69
Utility boiler number 7	0.066 lbs/MMBtu	25.69
Utility boiler number 8	0.066 lbs/MMBtu	61.59
Basic oxygen furnace main stack	0.018 gr/dscf	69.40
Reladling and desulfurization baghouse	0.008 gr/dscf	10.49
Ladle metallurgical station baghouse	0.004 gr/dscf	3.630
Sinter plant breaker discharge end	0.02 gr/dscf TSP	18.05 TSP
Sinter plant windbox stack 08	0.02 gr/dscf TSP	49.70 TSP
(27) LEHIGH PORTLAND CEMENT		
Raw ball mill RRM-1	0.085 lbs/ton	2.680
Pelletizer PP-1	0.051 lbs/ton	1.130
Pelletizer PP-2	0.051 lbs/ton	1.130
Green pellet dryer	0.111 lbs/ton	4.400
Preheater KP	0.198 lbs/ton	4.000
KK1 calcinator aluminate rotary kiln-lumnite plant	0.433 lbs/ton	8.670
Clinker cooler	0.556 lbs/ton	13.22
Finish ball mill	0.079 lbs/ton	1.660
Oil fired boiler	0.006 lbs/MMBtu	0.070
Number 1 bulk tank	0.001 lbs/ton	0.024
Number 2 bulk tank	0.001 lbs/ton	0.024
Number 3 bulk tank	0.001 lbs/ton	0.024
Silo baghouse number 1	0.120 lbs/ton	1.800
Silo baghouse number 2	0.120 lbs/ton	1.800
Silo baghouse number 3	0.120 lbs/ton	1.800
Silo baghouse number 4	0.120 lbs/ton	1.800
Heated hammermill	0.0032 lbs/ton	0.192
(28) LEVER BROTHERS		
Boiler house, building number 8, boiler number 2	0.116 lbs/MMBtu	9.570
Stack serving boiler house, building number 8, boiler numbers 3 and 4	0.116 lbs/MMBtu	18.88
Dowtherm boiler, DEFI process building 6	0.004 lbs/MMBtu	2.700
Milling and pelletizer soap dust collection system (DC-1), building number 15	0.020 gr/dscf	1.03
Powder dye dust collector system (DC-4), building number 15	0.020 gr/dscf	0.130
Schenble wet scrubber and demister collector system, building number 15	0.030 gr/dscf	1.030
Each stack serving detergent bar soap noodle bins numbers 1, 2, and 3 dust collection system (DC-5, DC-6, and DC-7)	0.020 gr/dscf	0.210
Stack serving chip mixers numbers 1, 2, and 3 soap dust collection system, building number 15 (DC-8, DC-9, and DC-10)	0.020 gr/dscf	0.720
Rework soap dust collection system (DC-3), building number 15	0.020 gr/dscf	0.800

Three chill rolls and apron conveyors (DC-2), building number 15	0.020 gr/dscf	1.090
High titer granules and chips manufacturing process, building number 6	0.930 lbs/ton	3.500
Detergent bar soap manufacturing process number 1, stack 7, building number 6	1.140 lbs/ton	4.000
Detergent bar soap manufacturing process number 2, stack 16A, building number 6	1.140 lbs/ton	4.000
Bulk filtrol unloading bleached earth dust collection system, building number 1	0.020 gr/dscf	0.070
Oil refinery/filter aid bag dumping operation, building number 1	0.020 gr/dscf	0.220
3 soap dryers dust collection system, building number 14	0.020 gr/dscf	0.120
6 noodle bins and 1 scrap kettle dust collection system, building number 3	0.020 gr/dscf	0.860
Dust collector system for soap rework grinding process, building number 14	0.020 gr/dscf	0.250
Stack serving hard soap finishing lines numbers 1, 2, 3, 5, 7, and 8 dust collection system (DC), building number 14	0.020 gr/dscf	1.540
Sulfonation process	0.205 lbs/ton	0.390
Soap dryer cleanout system, tank number 1, building number 14	0.030 gr/dscf	0.390
Soap dryer cleanout system, tank number 2, building number 14	0.030 gr/dscf	0.300
Crude glycerine filter aid dust collection system, building number 2	0.020 gr/dscf	0.130
Glycerine carbon handling dust collection system, building number 2	0.020 gr/dscf	0.170
Bulk urea handling system, new detergent bulk soap, building number 15A	0.020 gr/dscf	0.100
American hydrotherm boiler 2, stack 1A, building number 15A	0.150 lbs/MMBtu	1.830
Schenible wet scrubber and demister collection system, stack 2A, building number 15A	0.030 gr/dscf	1.030
Flex Kleen dust collection system DC-1053, stack 3A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1054, stack 4A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1055, stack 5A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1056, stack 6A, building number 15A	0.020 gr/dscf	0.940
Flex Kleen dust collection system DC-1050, stack 7A, building number 15A	0.020 gr/dscf	2.130
Flex Kleen dust collection system DC-1052, stack 8A, building number 15A	0.020 gr/dscf	2.130
Bulk Borax unloading to storage silo, stack 9A, building number 8	0.020 gr/dscf	0.130
Oil refinery/filter aid mixing tank number 44, building number 1, stack 15A	0.060 lbs/ton	0.030
Sample detergent bar soap line operation, building 14, stack 17A	0.002 lbs/ton	0.002
(29) MARBLEHEAD LIME COMPANY		
Flue dust loadout number 1 (MHL 14)	0.003 lbs/ton	0.110
Flue dust loadout number 2 (MHL 15)	0.003 lbs/ton	0.100
Lime grinder (MHL 13)	0.015 lbs/ton	0.440
Lime handling baghouse number 1 (MHL 6)	0.002 lbs/ton	0.260
Lime handling baghouse number 2 (MHL 7)	0.002 lbs/ton	0.180
Lime handling baghouse number 3 (MHL 8)	0.0004 lbs/ton	0.050
Lime handling baghouse number 4 (MHL 9)	0.001 lbs/ton	0.130
Lime loadout baghouse number 1 (MHL 10)	0.0004 lbs/ton	0.050
Lime loadout baghouse number 2 (MHL 11)	0.0004 lbs/ton	0.050
Lime loadout baghouse number 3 (MHL 12)	0.004 lbs/ton	0.410
Lime rotary kiln number 1	0.478 lbs/ton	9.950
Lime rotary kiln number 2	0.478 lbs/ton	9.950
Lime rotary kiln number 3	0.478 lbs/ton	9.950
Lime rotary kiln number 4	0.478 lbs/ton	9.950
Lime rotary kiln number 5	0.478 lbs/ton	9.950
(30) MARPORT SMELTING		
North baghouse	0.601 lbs/ton	2.300
South baghouse	1.279 lbs/ton	4.900

(31) METHODIST HOSPITAL		
Boiler number 1	0.044 lbs/MMBtu	0.350
(32) NATIONAL RECOVERY SYSTEMS		
Drying system	0.203 lbs/ton	4.060
Material storage handling	0.034 lbs/ton	0.680
Each stack serving lime fines storage silos (2 stacks)	0.001 lbs/ton	0.012
(33) NIPSCo) MITCHELL		
Stack serving boilers numbers 6 and 11	0.100 lbs/MMBtu	235.70
Stack serving boilers numbers 4 and 5	0.100 lbs/MMBtu	128.750
(A) Boiler numbers 4, 5, 6, and 11:		
(i) Operation under either subitem (ii) (CC) (BB) or (ii) (DD) (CC) shall only be allowed provided that a nozzle is in the stack serving boiler numbers 4 and 5 such that the stack diameter is restricted to eight and three-tenths (8.3) feet.		
(ii) NIPSCo may operate under any one (1) of the following scenarios:		
(AA) Boiler numbers 4 and 5 shall operate on natural gas.		
(BB) (AA) Boiler numbers 4, 5, 6, and 11 may operate simultaneously under the following conditions:		
(aa) One (1) of boiler number 4 or 5 may operate on coal if the other boiler is operated on natural gas or is not operating. Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to one-tenth (0.100) pound per million Btu and one hundred twenty-eight and one-seventy-fifth <u>seventy-five hundredths</u> (128.75) pounds per hour.		
(bb) Boiler numbers 6 and 11 may operate simultaneously on coal. Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to one-tenth (0.100) pound per million Btu and two hundred thirty-six (236.0) pounds per hour.		
(CC) (BB) Boiler numbers 4, 5, 6, and 11 may operate simultaneously on coal subject to the following conditions:		
(aa) Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to seventy-four thousandths (0.074) pound per million Btu and one hundred eighty-five (185.0) pounds per hour.		
(bb) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to seventy-four thousandths (0.074) pound per million Btu and one hundred seventy-five (175.0) pounds per hour.		

~~(DD)~~(CC) One (1) set of either boiler numbers 4 and 5 or 6 and 11 may operate on coal, if the other set is not operating, subject to the following conditions:

(aa) Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to one-tenth (0.100) pound per million Btu and two hundred fifty (250.0) pounds per hour.

(bb) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to one-tenth (0.100) pound per million Btu and two hundred thirty-six (236.0) pounds per hour.

(iii) NIPSCo shall maintain a daily log of the following for boiler numbers 4, 5, 6, and 11:

(AA) Fuel type.

(BB) Transition time of changes between or within operating scenarios.

The log shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.

(iv) Emission limits shall be maintained during transition periods within or between operating scenarios.

(B) Upon the effective date of this amended rule, biennial stack testing shall be conducted with boiler numbers 4, 5, 6, and 11 meeting the following conditions:

(i) ~~A stack test~~ Stack testing shall be performed begin within sixty (60) days and be completed within ninety (90) days of the initial utilization of the operating scenario specified in (A)(ii)~~(CC)~~(BB).

~~(AA) Particulate emissions from the stack serving boiler numbers 4 and 5, 6, and 11 shall be limited to seventy-four thousandths (0.074) pound per million Btu.~~

~~(BB) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to seventy-four thousandths (0.074) pound per million Btu.~~

(ii) After the initial stack test specified in item (i), NIPSCo may utilize the operating scenario specified in (A)(ii)~~(CC)~~(BB) if in the previous biennial stack test, particulate emissions from the stack serving boiler numbers 4, 5, 6, and 11 met the following conditions: emission limitation of

~~(AA) Particulate emissions from the stack serving boiler numbers 4 and 5 shall be limited to seventy-four thousandths (0.074) pound per million Btu.~~

~~(BB) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to seventy-four thousandths (0.074) pound per million Btu.~~

(iii) If the operating scenario specified in (A)(ii)(~~CC~~)(BB) has not been utilized since the previous biennial stack test specified in this clause, then stack testing shall meet the following conditions:

(AA) Particulate emissions from the stack serving boiler numbers 4 and 5, 6, and 11 shall be limited to one-tenth (0.100) pound per million Btu.

(BB) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to one-tenth (0.100) pound per million Btu.

(iv) If the operating scenario specified in (A)(ii)(~~CC~~)(BB) has been utilized since the previous biennial stack test specified in this clause and NIPSCo no longer has the ability to operate the boilers as specified in

(A)(ii)(~~CC~~)(BB), then stack testing shall meet the following conditions:

(AA) Particulate emissions from the stack serving boiler numbers 4 and 5, 6, and 11 shall be limited to one-tenth (0.100) pound per million Btu.

(BB) Particulate emissions from the stack serving boiler numbers 6 and 11 shall be limited to one-tenth (0.100) pound per million Btu.

All emissions testing shall be conducted in accordance with the procedures specified in 326 IAC 3-6. Records of stack test data shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.

(34) PREMIER CANDY COMPANY		
Boiler number 1 (North)	0.069 lbs/MMBtu	0.420
Boiler number 2 (South)	0.069 lbs/MMBtu	0.450
(35) QUANEX LASALLE STEEL		
Fume scrubber	0.015 lbs/ton	0.060
Number 11 furnace precipitator	0.548 lbs/ton	0.940
Stack serving shot blast baghouse (2 units)	0.001 lbs/ton	0.020
(36) REED MINERALS PLANT #14		
Fluidized bed dryer	0.015 gr/dscf	3.5
Crushing and screening	0.015 gr/dscf	9.0
(37) RHONE POULENC		
Package boiler	0.007 lbs/MMBtu	0.755
Preheater	0.007 lbs/MMBtu	0.230
Sulfuric acid production unit number 3	0.150 lbs/ton acid produced	1.560 acid mist
Sulfuric acid production unit number 4	0.150 lbs/ton acid produced	6.958 acid mist
(38) UNION CARBIDE		
Cylinder paint spray booth, stack 033	42.5 lbs/ton	0.340
Drum shotblaster and baghouse, stack 075	0.002 gr/dscf	0.028
Drum paint spray booth, stack 073	42.5 lbs/ton	0.340
Cylinder shotblaster number 2 baghouse, stack 030	0.004 gr/dscf	0.042
Generators, numbers 1 through 6	0.008 lbs/MMBtu	0.279
Cylinder shotblaster number 1 baghouse, stack 031	0.002 gr/dscf	0.020
(39) UNION TANK CAR COMPANY		
Grit blaster	0.002 lbs/ton	0.020
(40) U.S. GYPSUM COMPANY		

Raw material handling		
Rail car unloading, stack J10	0.010 gr/dscf	0.070
Each stack serving raw material conveying and storage, stacks J11, J12, and J13	0.015 gr/dscf	0.190
Rock handling process		
Drying, grinding, and calcining, stack M1	0.012 gr/dscf	3.210
Stucco elevating and conveying, stack M2	0.015 gr/dscf	2.210
Franklin fiber process, stack M6	0.011 gr/dscf	0.313
Wallboard manufacturing process		
Paper grinding and stucco system, stack B1	0.020 gr/dscf	2.230
Wallboard end sawing, stack B2	0.020 gr/dscf	0.860
Speciality board manufacturing process (kerfing), stack B3	0.020 gr/dscf	0.260
Each stack serving ready mix process, stacks J1, J2, and J3	0.017 lbs/ton	0.100
Dry texture paint process		
Mixing and packing, stack J4	0.020 gr/dscf	0.190
Bag dumping, stack J5	0.010 gr/dscf	0.100
Dry additive conveying, stack J6	0.010 gr/dscf	0.030
Dry joint compound process		
Mixing and packing, stack J7	0.020 gr/dscf	0.340
Additive air conveying, stack J8	0.010 gr/dscf	0.020
Panel saw process	0.020 gr/dscf	0.140
(41) U.S. REDUCTION COMPANY		
Crusher system	0.187 lbs/ton raw material	2.810
Milling system number 1	0.180 lbs/ton raw material	2.700
Milling system number 2	0.180 lbs/ton raw material	1.260
Reverberatory furnaces numbers 1, 2, 3, and 5 and borings dryer. Only 3 furnaces and the borings chip dryer shall operate at the same time while operating 4 baghouses identified as numbers 1, 2, 3, and 5.	0.271 lbs/ton aluminum produced	8.370
(42) USS) Gary Works		
Each stack serving number 3 sinter plant coolers	0.03 gr/dscf TSP	154.3 TSP
Number 3 sinter plant discharge area baghouse	0.02 gr/dscf	5.12
Number 3 sinter plant screening station baghouse	0.0052 gr/dscf	7.5
S1/S2 baghouse	0.0052 gr/dscf	0.83
Number 3 sinter plant storage bins building baghouse	0.01 gr/dscf	1.300
Each stack serving number 3 sinter plant windbox stacks	0.065 gr/dscf TSP	167.1
Number 2 QBOP flux handling lime baghouse	0.01 gr/dscf	2.600
Coke battery number 2 underfire stack	0.05 gr/dscf	27.54
Coke battery number 3 underfire stack	0.05 gr/dscf	42.140
Coke battery number 5 underfire stack	0.05 gr/dscf	16.80
Coke battery number 7 underfire stack	0.05 gr/dscf	20.40
Each stack serving number 2 precarbon building precipitators (3 units)	0.06 gr/dscf	2.5
Each stack serving number 3 precarbon building precipitators (3 units)	0.06 gr/dscf	2.5
Each stack serving number 1 BOP gas cleaning (2 units)	0.02 gr/dscf	17.2
Each stack serving number 2 QBOP gas cleaning (2 units)	0.02 gr/dscf	18.20
Number 2 QBOP hot metal desulfurization baghouse (8 stacks)	0.0052 gr/dscf	1.44
New 2 QBOP secondary baghouse	0.0052 gr/dscf	25.9

Number 1 basic oxygen furnace iron desulfurization baghouse	0.01 gr/dscf	9.32
Number 2 QBOP ladle metal baghouse number 1	0.01 gr/dscf	6.86
Number 2 QBOP ladle metal baghouse number 2	0.01 gr/dscf	2.44
Number 2 QBOP ladle metallurgy facility number 3 reheat furnace hot fume extraction and material handling baghouse	0.01 gr/dscf	4.33
Number 13 blast furnace sinter screening station number 13 baghouse	0.02 gr/dscf	2.5
Stack serving blast furnace stove number 4	0.029 lbs/MMBtu	11.60
Stack serving blast furnace stove number 6	0.029 lbs/MMBtu	11.6
Stack serving blast furnace stove numbers 7 and 8	0.029 lbs/MMBtu	23.20
Stack serving blast furnace stove number 13	0.015 lbs/MMBtu	21.20
Each stack serving boiler house number 4	0.036 lbs/MMBtu	13.155
Number 2 coke plant boiler house, boiler number 3	0.020 lbs/MMBtu	2.7
Stack serving number 2 coke plant boiler house, boiler numbers 4 and 5	0.033 lbs/MMBtu	10.0
Number 2 coke plant boiler house, boiler number 6	0.020 lbs/MMBtu	3.000
Number 2 coke plant boiler house, boiler number 7	0.011 lbs/MMBtu	1.800
Number 2 coke plant boiler house, boiler number 8	0.011 lbs/MMBtu	2.61
Each stack serving turboblower boiler numbers 1 through 5	0.025 lbs/MMBtu	8.400
Turboblower boiler number 6	0.025 lbs/MMBtu	16.58
Each stack serving 84 inch hot strip mill, reheat furnaces (4 units)	0.064 lbs/MMBtu	28.2
84 inch hot strip mill, waste heat boiler number 1	0.064 lbs/MMBtu	10.9
84 inch hot strip mill, waste heat boiler number 2	0.064 lbs/MMBtu	12.8
Each stack serving 160/210 inch plate mill, batch reheat furnace numbers 1 through 4	0.011 lbs/MMBtu	0.33
160/210 inch plate mill, continuous reheat furnace number 1	0.011 lbs/MMBtu	2.75
160/210 inch plate mill, continuous reheat furnace number 2	0.011 lbs/MMBtu	2.75
Stack serving 160/210 inch continuous heat treating furnaces 1, 2, 3, and 4	0.011 lbs/MMBtu	1.1

(e) The following opacity limits shall be complied with and shall take precedence over those in 326 IAC 5-1-2 with which they conflict:

<u>Source</u>	<u>Opacity</u>
EAST CHICAGO INCINERATOR	10%, 6 minute average
INLAND STEEL	
Electric arc furnace direct shell evacuation system baghouse	5%, 6 minute average
Electric furnace shop roof monitor	20%, 6 minute average
Electric furnace shop ladle metallurgical station baghouse	5%, 6 minute average
Number 2 basic oxygen furnace, number 10 furnace off-gas scrubber	20%, 6 minute average
Number 2 basic oxygen furnace, number 20 furnace off-gas scrubber	20%, 6 minute average
Number 2 basic oxygen furnace caster fume collection baghouse	5%, 3 minute average
Number 2 basic oxygen furnace charging isle and reladling desulfurization baghouse	5%, 3 minute average
Number 2 basic oxygen furnace flux storage and batch baghouse	5%, 3 minute average
Number 2 basic oxygen furnace ladle metallurgy station baghouse	5%, 3 minute average
Number 2 basic oxygen furnace roof monitor	20%, 3 minute average
Number 2 basic oxygen furnace secondary ventilation system scrubber	20%, 6 minute average
Number 2 basic oxygen furnace truck and ladle hopper baghouse	5%, 3 minute average
Number 2 basic oxygen furnace tundish dump baghouse	5%, 3 minute average
Number 4 basic oxygen furnace off-gas scrubber	20%, 6 minute average

Number 4 basic oxygen furnace reladling and desulfurization baghouse	5%, 3 minute average
Number 4 basic oxygen furnace roof monitor	20%, 3 minute average
Number 4 basic oxygen furnace secondary ventilation system baghouse	5%, 3 minute average
Number 4 basic oxygen furnace vacuum degassing material handling baghouse	5%, 3 minute average
Number 7 blast furnace casthouse	15%, 6 minute average
LTV STEEL CORPORATION	
Basic oxygen furnace ladle metallurgical station baghouse	5%, 3 minute average
Basic oxygen furnace main stack	20%, 6 minute average
Basic oxygen furnace reladling and desulfurization baghouse	5%, 3 minute average
Basic oxygen furnace shop roof monitor	20%, 3 minute average
USS) Gary Works	
Number 1 basic oxygen furnace iron desulfurization baghouse	5%, 3 minute average
Number 1 basic oxygen furnace roof monitor	20%, 3 minute average
Number 1 basic oxygen process gas cleaning (2 units)	20%, 6 minute average
Number 2 QBOP hot metal desulfurization baghouse	5%, 3 minute average
Number 2 QBOP gas cleaning	20%, 6 minute average
Number 2 QBOP roof monitor	20%, 3 minute average
Number 2 QBOP flue handling line baghouse	5%, 3 minute average
New 2 QBOP secondary baghouse	5%, 3 minute average
Number 2 QBOP ladle metallurgy baghouse number 1	5%, 3 minute average
Number 2 QBOP ladle metallurgy baghouse number 2	5%, 3 minute average

(f) Test methods for this section shall be as follows:

(1) Emissions of PM₁₀ shall be measured by any of the following methods:

(A) 40 CFR 51, Appendix M, Method 201.

(B) 40 CFR 51, Appendix M, Method 201A.

(C) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, **Methods Method 1, 1A, 2, 2A, 2C, 2D, 3, or 4***.

(2) Emissions for TSP matter shall be measured by the following methods:

(A) 40 CFR 60, Appendix A, **Methods Method 5, 5A, 5D, 5E, or 17***. Method 17 may not be used when the stack gas temperature exceeds two hundred forty-eight degrees Fahrenheit (248°F) (±25°F).

(B) The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR 60, Appendix A, **Methods Method 1, 1A, 2, 2A, 2C, 2D, 3, or 4***.

(3) Measurements of opacity shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9*, except for those sources where a three (3) minute averaging time is required. Sources requiring a three (3) minute averaging time are subject to all parts of Method 9 except the six (6) minute averaging provision. In these cases, the opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(4) Emissions of sulfuric acid mist shall be measured in accordance with 40 CFR 60, Appendix A, Method 8*.

(5) Compliance with the mass emission limits for the sinter plant windbox stacks at USS Gary

in subsection (d) shall be determined by the simultaneous sampling and analysis of both noncondensibles (front half) and condensibles (back half) particulate matter. The quantity of noncondensibles particulate matter in the gas stream shall be determined in accordance with the procedures specified in 40 CFR 60, Appendix A, Method 5. The quantity of condensible particulate matter in the gas stream shall be determined in accordance with 40 CFR 51, Appendix M, Method 202, with the following modifications:

- (A) A heated Method 5 out of stack filter shall be used instead of an in-stack filter.
- (B) The impinger system shall consist of five (5) impingers. The first three (3) impingers shall contain one hundred (100) milliliters of deionized water, the fourth shall be empty, and the fifth shall contain silica gel.
- (C) The first four (4) impingers shall be used to determine the quantity of condensible particulate emissions.

Compliance shall be achieved if the sum of the front half and the back half is less than or equal to the mass emission limit of 167.1 lbs/hr and the front half catch is less than or equal to the mass concentration limit of 0.065 gr/dscf in subsection (d).

(g) The installation and operation of opacity continuous emissions monitors shall be conducted according to procedures specified in 326 IAC 3. Prior to December 10, 1993, the following facilities shall have a continuous emission monitor for opacity installed and operating:

- (1) Coke battery underfire stacks at USS.
- (2) LTV basic oxygen furnace precipitator main stack.
- (3) USS numbers 2 and 3 precarbon building preheating and drying line exhaust gas precipitators (six (6) units). One (1) opacity continuous emission monitor shall be installed prior to December 10, 1993. The remaining five (5) opacity continuous emission monitors shall be installed prior to December 31, 1994. Based on an evaluation of the technical feasibility of operation of the first monitor on one (1) line, USSteel may petition for a one (1) year extension of the requirement to install the remaining five (5) monitors or for a waiver for installation and operation of the six (6) opacity continuous emission monitors. USSteel shall include information on the moisture content of the gases and their effect on accurate opacity measurements as part of any such petition.

(h) The following combustion sources shall fire natural gas only:

<u>Source</u>	<u>Units</u>	<u>lbs/hr</u>
(1) ADVANCED ALUMINUM PRODUCTS		
Number 2 annealer	0.003 lbs/MMBtu	0.048
Number 3 annealer	0.003 lbs/MMBtu	0.048
Annealing furnace	0.003 lbs/MMBtu	0.040
Boiler	0.003 lbs/MMBtu	0.010
(2) AMERICAN CAN		
Stack serving basecoat ovens (6 units)	0.003 lbs/MMBtu	0.210
Boiler number 4	0.003 lbs/MMBtu	0.010
Stack serving boiler numbers 1, 2, and 3	0.003 lbs/MMBtu	0.170

Stack serving Johnson space heater numbers 1 through 4	0.003 lbs/MMBtu	0.060
Stack serving litho ovens (5 units)	0.003 lbs/MMBtu	0.150
(3) AMERICAN MAIZE PRODUCTS (AMAIZO)		
Boiler number 1	0.003 lbs/MMBtu	0.288
Boiler number 2	0.003 lbs/MMBtu	0.468
South dextrin furnace number 1	0.003 lbs/MMBtu	0.023
North dextrin furnace number 2	0.003 lbs/MMBtu	0.023
(4) AMERICAN STEEL FOUNDRY) HAMMOND		
Boiler number 4-5509	0.003 lbs/MMBtu	0.030
Furnaces	0.003 lbs/MMBtu	0.16
(5) AMOCO OIL, WHITING REFINERY		
F-100 marine docks distillate heater	0.003 lbs/MMBtu	0.020
(6) CERTIFIED CONCRETE INC.		
Stack serving 2 boiler units	0.003 lbs/MMBtu	0.035
(7) COMMONWEALTH EDISON COMPANY		
Stack serving emergency backup boiler numbers 2-1 and 2-2	0.003 lbs/MMBtu	0.900
(8) E.I. DUPONT		
Power house (1 unit)	0.003 lbs/MMBtu	0.100
(9) GATX-GEN AMER TRANS		
Stress relief furnace	0.003 lbs/MMBtu	0.120
(10) GENERAL REFRACTORY		
Tunnel kiln	0.003 lbs/MMBtu	0.040
(11) HAMMOND LEAD) HALOX PLANT		
Stack 18-S-24	0.003 lbs/MMBtu	0.025
Stack 18-S-49	0.003 lbs/MMBtu	0.025
(12) HAMMOND LEAD) HALSTAB PLANT		
Stack S-18	0.003 lbs/MMBtu	0.008
Stack S-19	0.003 lbs/MMBtu	0.008
(13) INLAND STEEL		
12 inch bar mill reheat furnace	0.003 lbs/MMBtu	1.090
Stack serving 21 inch bar mill reheat furnace numbers 1 and 2	0.003 lbs/MMBtu	1.31
Stack serving 76 inch hot strip mill reheat furnace numbers 1, 2, and 3	0.003 lbs/MMBtu	1.310
Stack serving 80 inch hot strip mill furnace numbers 3 and 4	0.003 lbs/MMBtu	3.980
Number 3 cold strip and numbers 5 and 6 annealing furnaces	0.003 lbs/MMBtu	0.987
Number 5 galvanizing line	0.003 lbs/MMBtu	0.44
Number 3 continuous anneal line	0.003 lbs/MMBtu	0.25
Open coil anneal	0.003 lbs/MMBtu	0.25
Plant 1 galvanizing lines	0.003 lbs/MMBtu	0.51
Normalizing line	0.003 lbs/MMBtu	0.13
(14) LTV STEEL CORPORATION		
Hot strip space heater numbers 1 through 28	0.003 lbs/MMBtu	0.250 TSP
Sheet mill number 2 portable annealing furnace numbers 1 through 23	0.003 lbs/MMBtu	1.100 TSP
Sheet mill number 2 space heater numbers 1 through 7	0.003 lbs/MMBtu	0.050 TSP
Sheet mill number 3 open coil annealing furnace numbers 1 through 3	0.003 lbs/MMBtu	0.031 TSP
Number 3 sheet mill annealing furnace numbers 1 through 7	0.003 lbs/MMBtu	0.071 TSP
Number 3 sheet mill annealing furnace numbers 1 through 11	0.003 lbs/MMBtu	0.520 TSP
Sheet mill number 2, annealing and galvanizing furnace numbers 2 through 5	0.003 lbs/MMBtu	1.280 TSP
Sheet mill number 2, CRSM boiler numbers 7 and 8	0.003 lbs/MMBtu	0.290 TSP

Number 2 cold reduced strip mill, number 2 galvanizing line, numbers 1 and 2 flame furnaces	0.003 lbs/MMBtu	0.500
Number 2 sheet mill galvanizers 1 and 2	0.003 lbs/MMBtu	0.265 TSP
(15) LEVER BROTHERS		
American hydrotherm boiler number 1	0.003 lbs/MMBtu	0.040
(16) NIPSCo) MITCHELL		
Each stack serving unit numbers 9A, 9B, and 9C gas turbines	0.003 lbs/MMBtu	0.660
(17) STANDARD FORGINGS		
Salem rotary furnace	0.003 lbs/MMBtu	0.120
Stack serving heat treat furnaces (3 units)	0.003 lbs/MMBtu	0.080
(18) UNION CARBIDE		
Package boilers (2 units)	0.003 lbs/MMBtu	0.618
Plants numbers 6, 7, and 8 regenerator heaters	0.003 lbs/MMBtu	0.097
(19) UNION TANK CAR CO.		
Boiler house, north	0.003 lbs/MMBtu	0.110
Boiler house, south	0.003 lbs/MMBtu	0.110
Number 4 boiler	0.003 lbs/MMBtu	0.020
Number 8 boiler	0.003 lbs/MMBtu	0.010
North stress furnace	0.003 lbs/MMBtu	0.160
Stack serving paint oven unit numbers 1 through 5	0.003 lbs/MMBtu	0.060
South stress furnace	0.003 lbs/MMBtu	0.160
(20) U.S. GYPSUM COMPANY		
Each stack serving wallboard drying furnace, stacks B4, B5, and B6	0.003 lbs/MMBtu	0.068
(21) U.S. REDUCTION COMPANY		
Preheat melting pot exhaust	0.003 lbs/MMBtu	0.090
(22) USS) GARY WORKS		
Electrogalvanizing boiler	0.003 lbs/MMBtu	0.110
Number 2 coke plant boiler house, boiler number 1	0.003 lbs/MMBtu	0.385
Number 2 coke plant boiler house, boiler number 2	0.003 lbs/MMBtu	0.385
Tin mill boiler number 5	0.003 lbs/MMBtu	0.480
Tin mill boiler number 1	0.003 lbs/MMBtu	0.240
Tin mill boiler number 2	0.003 lbs/MMBtu	0.240
Stack serving tin mill boiler numbers 3 and 4	0.003 lbs/MMBtu	0.830
160/210 inch plate mill, car bottom heat treating furnace	0.003 lbs/MMBtu	0.070
160/210 inch plate mill, car bottom normalizing furnace	0.003 lbs/MMBtu	0.070
160/210 inch plate mill, keep hot pits	0.003 lbs/MMBtu	0.090

(i) (Reserved)

(j) (Reserved)

(k) This subsection lists site-specific control requirements. For any facility with a compliance date after December 10, 1993, the company shall submit a schedule for meeting the final compliance date containing milestones for purchase and installation of the equipment and for the operational changes required to assure compliance with the applicable standard prior to the final

compliance date. The schedule shall be submitted to the department and to the U.S. EPA prior to December 10, 1993. A violation of any milestone in the submitted schedule constitutes a violation of this rule. The sources listed shall meet the requirements as follows:

(1) The following for American Maize:

(A) Starch dryer number 1 shall be permanently shut down by December 31, 1993.

(B) Starch dryer number 2 stack height shall be increased from eighteen and three-tenths (18.3) meters to thirty (30) meters by December 10, 1993.

(C) Dextrin manufacturing systems 1 through 7 shall be permanently shut down by December 31, 1993.

(D) After December 10, 1993, American Maize shall achieve compliance with the respective limits in section 10.1(d) of this rule. **subsection (d).** The following mass emission limits shall be applicable until December 10, 1993:

<u>Process</u>	<u>Units</u>	<u>Emission Limit</u>
Each stack serving dextrin manufacturing equipment systems numbers 1 through 7	1.000 lbs/ton	0.50 lbs/hr
Starch flash feed dryer number 1 scrubber	0.086 lbs/ton	8.69 TSP

(2) American Steel Foundry) Hammond. The PM₁₀ mass emission limit in subsection (d) for coil spring grinder numbers 3-0244, 3-0386, 3-0389, 3-0247, 3-0385, 3-0295, and 3-0233 shall be complied with no later than December 31, 1993, and shall be maintained thereafter. The source shall either improve the efficiency of the existing control equipment or replace the existing control equipment with higher efficiency control equipment to comply with emission limits specified in subsection (d).

(3) Commonwealth Edison Company. Units 3 and 4 shall comply with:

(A) a thirty percent (30%), six (6) minute average opacity limit until December 31, 1992;

(B) a twenty-five percent (25%), six (6) minute average opacity limit from January 1, 1993, to December 31, 1993; and

(C) a twenty percent (20%), six (6) minute average opacity limit after December 31, 1993.

(4) Hammond Lead Products) Halox plant. The stack heights of stacks 17-S-25 and 17-S-40 shall be raised to twenty-one and three-tenths (21.3) meters above grade by December 10, 1993.

(5) The following for Inland Steel:

(A) Number 2 BOF facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31, 1994, the opacity standard shall be the thirty percent (30%), six (6) minute average. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9*, except that the three (3) minute, twenty percent (20%) opacity standard shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.

(B) Numbers 8 and 11 coke batteries. Operation of the number 8 coke battery and its underfire stack and number 11 coke battery and its associated quench tower, underfire stack,

and preheater stacks shall be permanently discontinued before December 31, 1992.

(C) Number 10 coke battery. After the shutdown of the number 8 coke battery, the electrostatic precipitator associated with the number 8 coke battery shall be connected to the number 10 coke battery prior to December 31, 1992.

(D) Numbers 6, 7, 9, and 10 coke batteries. These coke batteries and associated quench towers and underfire stacks shall not operate after December 31, 1994. Prior to December 31, 1994, these coke batteries shall meet the requirement of section 10.2 of this rule with the following exceptions:

(i) There shall be no visible emissions from more than ten percent (10%) of the standpipes on operating ovens on a battery.

(ii) Visible emissions shall not exceed twenty percent (20%) averaged over six (6) consecutive observations during any pushing operation.

(iii) Mass emissions from the coke battery underfire stacks shall not exceed fifty-thousandths (0.050) gr/dscf.

(E) Number 4 BOF facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31, 1994, the opacity standard shall be the twenty-five percent (25%), six (6) minute average.

(F) Number 7 blast furnace casthouse. Tapping emissions from the number 7 blast furnace casthouse shall be controlled by a hood vented to a baghouse on and after December 1, 1992. Canopy hoods shall be installed above each of the four (4) furnace tap holes. The hoods shall be ducted to a new three hundred seventy thousand (370,000) actual cubic feet per minute minimum design flow rate baghouse. Each hood shall be located just above the casthouse crane and extend via vertical sheeting to the casthouse roof. The system shall provide a minimum of one hundred eighty-five thousand (185,000) actual cubic feet per minute of air flow (fume capture) to each hood, when the corresponding tap hole is being drilled or plugged.

(G) Number 2 bloom mill soaking pits. The soaking pits shall not operate after December 31, 1992.

(H) Prior to December 31, 1994, Inland Steel shall comply with a thirty percent (30%), six (6) minute average opacity limit for the electric arc furnace roof monitor. On and after December 31, 1994, Inland Steel shall comply with the roof monitor opacity limit specified in subsection (e). Prior to December 31, 1994, Inland Steel shall do the following:

(i) Perform tests according to procedures developed in consultation with the department to establish process and control equipment operating procedures and to establish control system fan motor ampere and damper position or volumetric flow rates through each separately ducted hood and/or duct used to capture emissions during the electric arc furnace charging, tapping, and refining process.

(ii) Install the required monitoring equipment in consultation with the department regarding its accuracy and precision position.

(iii) Record the start time and duration of charging, tapping, and refining of each heat.

(I) After December 31, 1994, the sources shall comply with the respective limits contained in 326 IAC 6-1-10.1(d). **subsection (d).** The following mass emission limits will be applicable until December 31, 1994:

<u>Inland Steel Processes</u>	<u>Emission Limit</u> <u>(Units)</u>	<u>Emission Limit</u> <u>(lbs/hr)</u>
Number 6 coke battery underfire stack	0.271 lbs/to lbs/ton coal	9.840
Number 7 coke battery underfire stack	0.267 lbs/ton coal	15.580
Number 9 coke battery underfire stack	0.406 lbs/ton coal	19.180
Number 10 coke battery underfire stack	0.371 lbs/ton coal	27.81
Stack serving 21 inch bar mill reheat furnace numbers 1 and 2	0.29 lbs/MMBtu	12.95
Number 4 slabber soaking pit numbers 1 through 18 collective	0.0 lbs/MMBtu	0.0
Number 4 slabber soaking pit numbers 19 through 45 collective	0.031 lbs/MMBtu	9.190
Number 3AC station boiler numbers 301 through 304	0.023 lbs/MMBtu	20.45
Number 3AC station boiler number 305	0.023 lbs/MMBtu	6.82

(6) The following for LTV Steel Corporation:

(A) Basic oxygen furnace facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 10, 1993, and shall be maintained thereafter. Prior to December 10, 1993, the opacity standard shall be twenty percent (20%) except for one (1) three (3) minute average per hour.

(B) Number 4 blast furnace. Compliance with the opacity limit shall be achieved no later than February 1, 1994, and shall be maintained thereafter. Also, control equipment capable of capturing and collecting emissions generated at the east and west tilting runner spouts and tap holes shall be installed and operational by February 1, 1994.

(7) NIPSCo) Mitchell. Units 5 and 6 shall comply with the following:

(A) Thirty percent (30%), six (6) minute average opacity limit until December 31, 1992.

(B) Twenty-five percent (25%), six (6) minute average opacity limit from January 1, 1993, to December 10, 1993.

(C) Twenty percent (20%), six (6) minute average opacity limit after December 10, 1993.

(8) The following for USS) Gary Works:

(A) Numbers 15 and 16 coke batteries. The coke batteries and all associated operations shall not operate after the effective date of this section.

(B) Number 13 blast furnace casthouse roof monitor. The twenty percent (20%), six (6) minute average opacity standard shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31, 1994, the blast furnace casthouse shall comply with a thirty percent (30%) opacity, six (6) minute rolling average standard.

(C) Number 1 basic oxygen furnace facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 31, 1996, and shall be maintained thereafter. Prior to December 31, 1996, the

following opacity standards shall apply:

- (i) Prior to January 1, 1995, the instantaneous opacity shall not exceed thirty percent (30%) opacity except for an aggregate of six (6) minutes per hour. Twenty-four (24) instantaneous opacity readings greater than thirty percent (30%) within any sixty (60) minute period shall be considered a six (6) minute aggregate.
 - (ii) For the period of January 1, 1995, through December 31, 1995, the instantaneous opacity shall not exceed twenty-five percent (25%) opacity, except for an aggregate of six (6) minutes per hour.
 - (iii) For the period of January 1, 1996, through December 30, 1996, the instantaneous opacity shall not exceed twenty-five percent (25%) opacity, except for an aggregate of five (5) minutes per hour. Twenty (20) instantaneous opacity readings greater than thirty percent (30%) within any sixty (60) minute period shall be considered a five (5) minute aggregate.
- (D) Number 2 QBOP facility roof monitor. The twenty percent (20%), three (3) minute average opacity standard in subsection (e) shall be achieved no later than December 31, 1994, and shall be maintained thereafter. Prior to December 31 1994, the instantaneous opacity shall not exceed thirty percent (30%) opacity except for an aggregate of eight (8) minutes per hour. Thirty-two (32) instantaneous opacity readings greater than thirty percent (30%) within any sixty (60) minute period shall be considered an eight (8) minute aggregate.
- (E) Number 2 coke plant boilers. Only four (4) of the number 2 coke plant boilers may operate using coal or coke oven gas at the same time. If more than four (4) boilers are in operation, all but four (4) shall use natural gas.
- (F) Eighty-four (84) inch hot strip mill. Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of four hundred seventy-seven (477) million British thermal units per hour for waste heat boiler number 1 and furnace numbers 1 and 2 combined and a total of five hundred seven (507) million British thermal units per hour for waste heat boiler 2 and furnaces 3 and 4 combined. The remainder of the actual heat input shall be obtained by burning natural gas. A total actual heat input shall not exceed four hundred forty (440) million British thermal units per hour for each furnace, one hundred seventy (170) million British thermal units per hour for waste heat boiler number 1, and two hundred (200) million British thermal units per hour for waste heat boiler number 2.
- (G) Only two (2) of the three (3) sinter lines shall operate at any one (1) time. For each line, USS) Gary Works shall maintain the following records in regard to the sinter plant operation:
- (i) Startup and shutdown time.
 - (ii) Average hourly production rate.
 - (iii) The cause of any malfunction and the correction taken.
- (H) Number 2 coke plant boiler house boilers numbers 4, 5, and 6. A ninety (90) day written notice shall be given to the department and the U.S. EPA in the event of switching fuels from gas to coal. In addition, continuous opacity emission monitors must be installed prior to the fuel switch.
- (I) Beach iron dumping and process vessel maintenance activities subject to subsection

(p)(3)(F)(i) and (p)(3)(F)(ii) shall comply with the applicable twenty percent (20%) opacity limitation no later than December 31, 1994. The schedule for compliance submitted by December 10, 1993, shall establish milestones that achieve final compliance as soon as practical, but no later than December 31, 1994.

(J) Number 5 quench tower will comply with the ninety-five percent (95%) baffle requirement under section 10.2(c)(7)(F) of this rule no later than December 10, 1993.

(9) East Chicago Incinerator. The source shall comply with the mass emission limit in subsection (d) and the opacity limit in subsection (e) upon the schedule specified as a permit condition by the construction permit number CP 089-1744, ID 089-00309, issued by the department. These limits are in addition to complying with the requirements of the permit related to process and control equipment monitoring, compliance testing, stack continuous opacity monitoring, and other operating and maintenance requirements. Prior to the compliance date in this subdivision, the source shall comply with a mass emission limit of seventy-one hundredths (0.71) lbs of TSP/ton of raw material and a thirty percent (30%), six (6) minute average opacity limit.

(l) The continuous compliance plan (CCP) for sources listed in subdivisions (1) through (26), shall contain information on the facilities included in subsections (d) and (e). The following sources shall submit a CCP to the department by December 10, 1993:

- (1) American Maize Products.
- (2) American Steel Foundry) East Chicago.
- (3) American Steel Foundry) Hammond.
- (4) Amoco Oil Company.
- (5) Atlas Blacktop.
- (6) Bucko Construction.
- (7) Commonwealth Edison Company.
- (8) East Chicago Incinerator.
- (9) General Refractory.
- (10) Globe Industries.
- (11) Hammond Lead Products) Halox, Halstab, and Lead.
- (12) Harbison Walker.
- (13) Inland Steel.
- (14) LTV Steel Corporation.
- (15) Lehigh Portland Cement.
- (16) Lever Brothers.
- (17) Marblehead Lime Company.
- (18) Marport Smelting.
- (19) National Recovery Systems.
- (20) NIPSCo) Mitchell.
- (21) Reed Minerals.
- (22) Rhone Poulenc.

(23) U.S. Gypsum Company.

(24) U.S. Reduction Company.

(25) USS) Gary Works.

(26) A CCP shall also be submitted by any source in Lake County for facilities that meet the following conditions:

(A) Boilers with heat input capacity equal to or greater than twenty-five (25) million British thermal units per hour, singly or in combination, that vent through a single stack. Facilities, including boilers and reheat furnaces, configured to burn only natural gas, blast furnace gas, or coke oven gas, or a combination of these gases, are exempt.

(B) Facilities that perform manufacturing operations in a building or structure such that the total uncontrolled PM₁₀ emissions from all such operations amount to ten (10) tons per year or more and that could potentially escape into the atmosphere through roof vents and other openings. The uncontrolled PM₁₀ emissions shall be estimated with AP-42, "Compilation of Air Pollutant Emission Factors, Volume I, (Stationary Point and Area Sources)", 4th Edition, September 1985, (and succeeding amendments)** emission factors or other documentable emission factors acceptable to the commissioner.

(C) Each facility, not required to submit a CCP in accordance with this subsection, with uncontrolled PM₁₀ or TSP emissions which may exceed one hundred (100) tons per year based on eight thousand seven hundred sixty (8,760) hours of operation and AP-42 emission factors or other documentable emission factors acceptable to the commissioner.

(m) The CCP shall contain, for the facilities specified in subsection (l), documentation of operation and maintenance practices of process operations and any particulate matter control equipment existing or required to be installed, replaced, or improved by subsection (k) that are essential to maintaining compliance with the mass and opacity limits specified in subsections (d) and (e) and 326 IAC 5-1.

(n) The CCP shall include the following:

(1) A list of the processes and facilities at the source.

(2) A list of the particulate matter control equipment associated with the processes and facilities listed in subsection (l).

(3) The process operating parameters critical to continuous compliance with the applicable PM₁₀ or TSP mass and opacity limits, including applicable specific requirements listed in subsection (p).

(4) The particulate matter control equipment operating parameters critical to continuous compliance with the applicable PM₁₀ or TSP mass and opacity including applicable requirements listed in subsection (q).

(5) The specific monitoring, recording, and record keeping procedures for process and control equipment for each facility in the CCP specified in subdivisions (1) and (2).

(6) The procedure used to assure that adequate exhaust ventilation is maintained through each duct at facilities where emissions are captured by a collection hood and transported to a control

device.

(o) A CCP for a source to which subsection (k) applies shall contain a schedule for complying with the requirements of subsection (k). The schedule shall list specific compliance dates for the following actions:

- (1) Submittal of plans.
- (2) Start of construction.
- (3) Completion of construction.
- (4) Achieving compliance.
- (5) Performing compliance tests.
- (6) Submitting compliance test results.

(p) A source or facility to which subsection (l) applies, which belongs to any source category listed in this subsection, shall include the following information, applicable procedures, or commit to the following actions in its CCP:

- (1) For lime plants, monitor opacity at the kilns and control system vents during normal operation of the kiln with a continuous emission monitor or through self-monitoring of opacity. 40 CFR 60, Appendix A, Method 9* should be used to determine opacity if the facility is controlled by a positive pressure fabric filter.
- (2) For petroleum refineries, continuously monitor opacity of exhaust gases and monitor the coke burn-off rate in pounds per hour from fluid catalytic cracking unit catalyst regenerators.
- (3) Steel mill CCPs shall include, as a minimum, the following:

(A) Basic oxygen process (BOP, BOF, QBOP), including the following:

- (i) Describe the capture and control devices to control particulate emissions from each phase of the steel production cycle, including the furnace, hot metal transfer, hot metal desulfurization, and kish removal. The description shall include the locations within the facility of these operations in relation to capture hoods, control devices, roof vents, and other building openings.
- (ii) Describe any fume suppression system, including the process or emission point being controlled, the location within the facility, the inert gas or steam application rate, and the monitoring method. As used in this item, "fume suppression system" means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.
- (iii) Describe the procedure for recording furnace charging and tapping time, amount of throughput, and amount of steel produced.
- (iv) Describe the off-gas system leak detection and repair record keeping practices.
- (v) Describe the procedures used to minimize dirt and debris accumulation on the facility floor.
- (vi) Describe practices that reduce PM_{10} and TSP emissions escaping the primary or secondary hood during scrap charging and hot metal charging tapping steel and dumping

slag.

(vii) At least monthly, inspect the operational status of the following elements of the capture system:

- (AA) Pressure sensors.
- (BB) Dampers.
- (CC) Damper switches.
- (DD) The hood and ductwork for the presence of holes.
- (EE) Ductwork for accumulation of dust.
- (FF) Fans for erosion.

Maintain records of the inspections and any repairs.

(B) Electric arc furnace, including the following:

(i) List the furnace operating sequences to be followed in case of multivessel operation. Describe the capture and control devices used to control particulate emissions in each phase of the steel production cycle, including exhaust rate and dampers, blast gates, instrumentation operation, and control. Include a drawing that shows:

- (AA) the location of the furnace within the facility in relation to capture hoods and control devices, roof vents, and other building openings; and
- (BB) the location of other processes within the facility that have potential to generate emissions, such as casting and ladle repair.

(ii) Describe the procedure for recording the following:

- (AA) Time of furnace charging, furnace melting, and furnace refining.
- (BB) Tapping start and stop times.
- (CC) Charge weight for each heat.
- (DD) Tap weight for each heat.

(iii) At least monthly, inspect the operational status of the following elements of the capture system:

- (AA) Pressure sensors.
- (BB) Dampers.
- (CC) Damper switches.
- (DD) Hood and ductwork for the presence of holes.
- (EE) Ductwork for accumulation of dust.
- (FF) Fans for erosion.

Maintain records of the inspections and any repairs.

(iv) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(v) Once per heat, either check and record the control system fan motor ampere and damper position or monitor flow rate through each separately ducted hood and/or duct used to capture emissions from the electric arc furnace operation.

(vi) Take visible emission readings of the direct shell evacuation system and the roof monitor at least once a day. The readings shall be taken during one (1) single steel production cycle and will be concurrent with the observations in subsection (k)(5)(H)(iii).

The opacity observations shall be taken according to 40 CFR 60, Appendix A, Method 9* and consist of at least one (1) six (6) minute observation each during charging and tapping and three (3) six (6) minute observations during melting and refining.

(vii) Report to the department on a quarterly basis control system fan motor amperage values that exceed fifteen percent (15%) of the value or operation at volumetric flow rates lower than those established during the performance test in subsection (k)(5)(H)(i).

Operation above these values may be considered as unacceptable operation of the electric arc furnace equipment and the emissions capture and control system by the commissioner. Unless alternative values are established according to the procedures prescribed in subsection (l).

(viii) Keep a record of any process and control equipment upsets, malfunctions, or activities within the electric arc furnace facility that may have resulted in excessive emissions. The records shall consist of the nature of event, time, and duration.

(C) Iron production that includes a blast furnace shall comply with the following:

(i) Describe procedures, including frequency, for inspection of the following elements of a capture system:

(AA) Pressure sensors.

(BB) Dampers.

(CC) Damper switches.

(DD) Hood and ductwork for the presence of holes.

Maintain records of the maintenance and any repairs made.

(ii) Describe procedures used to minimize dirt and debris accumulation on the facility floor.

(iii) Describe any fume suppression system, including the process or emission point being controlled, the location, and the inert gas or steam application rate and the monitoring method. Fume suppression system means the equipment comprising any system used to inhibit the generation of emissions from steelmaking facilities with an inert gas, flame, or steam blanket applied to the surface of molten iron or steel.

(iv) Describe the record keeping for the following elements of the iron production cycle:

(AA) Time of hole drilling.

(BB) Time of tapping.

(CC) Time of hole plugging.

(v) Describe the blast furnace inspection, repair, and maintenance schedule for the following elements:

(AA) Tuyres.

(BB) Bleeder valves.

(CC) Large and small bells.

(DD) Uptakes and downcomers (to minimize backdrafting).

(EE) Standby devices.

(vi) Describe the procedures used to inspect and operate the blast furnace gas cleaning equipment, such as dust catchers and scrubbing equipment to assure operation within

design parameters.

(D) Sinter production shall comply with the following:

- (i) Describe routine startup and shutdown procedures and other work practices which are followed to reduce emissions and equipment malfunctions.
- (ii) Describe procedures for inspection of equipment to identify areas which may affect particulate emissions, including the following:
 - (AA) Points of wear.
 - (BB) Distorted grate bars.
 - (CC) Leaking machine seals.
 - (DD) Holes in ducts.
 - (EE) Holes in flapper valves.
- (iii) Describe procedures for monitoring mechanical and electrical inspection records.
- (iv) Describe procedures used to minimize dirt and debris accumulation on the facility floor.
- (v) Describe procedures for monitoring burden parameters, including base to acid ratio and hydrocarbon content.
- (vi) Describe the routine for plant operation during equipment failure, such as screening station failure.
- (vii) At least monthly, inspect the operational status of the following elements of the capture system:
 - (AA) Pressure sensors.
 - (BB) Dampers.
 - (CC) Damper switches.
 - (DD) Hood and ductwork for the presence of holes.
 - (EE) Ductwork for accumulation of dust.
 - (FF) Fans for erosion.

Maintain records of the inspections and any repairs.

(E) Coke production shall comply with the following:

- (i) Describe operating and maintenance practices used to minimize emissions from charging doors, charge port lids, oftakes, standpipes, gooseneck caps and gas collector mains, pushing, underfire stacks, and quenching, including quench water dissolved solids control. The documentation shall include the following operating practices:
 - (AA) Use of jumper pipe during charging.
 - (BB) Procedure for worker's coordination, training, and communication.
 - (CC) Luting material used.
 - (DD) Periodic engineering evaluations to determine improvements needed.
 - (EE) Aspiration practices during charging, including aspiration rate and adjustment.
- (ii) Describe the routinely available inventory of spare parts and equipment, including luting compounds, doors, and mobile scrubber cars.

(F) Waste disposal and recycling practices of iron and steel scrap and other metallic scrap shall comply with the following:

- (i) Provide a description of the routine activities involving disposal and reclamation of iron and steel. The visible emissions from such activities shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
 - (ii) Maintenance of process vessels, for example, pugh ladles, shall be performed in enclosed structures. The visible emissions from such structures shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
 - (iii) Emissions from all steel scrap burning or cutting and oxygen lancing operations shall not exceed twenty percent (20%) opacity on a three (3) minute average as measured by 40 CFR 60, Appendix A, Method 9*. The opacity shall be determined as an average of twelve (12) consecutive observations recorded at fifteen (15) second intervals.
- (G) Visible emission evaluation plans shall comply with the following:
- (i) Within sixty (60) days of the effective date of this section, each steel mill shall submit a plan to conduct visible emissions evaluations per the approved test method or procedures to determine compliance with the applicable opacity standard. The plan shall specify the frequency of visible emissions evaluations at the operations included in clauses (A) through (F). The plan shall include charging, pushing, lids and offtakes, doors, standpipes, and gas collector mains at coke production operations and lime plants.
 - (ii) If the plan specifies that the duration of readings is less than one (1) hour per day at each facility, the plan shall include the basis for less frequent evaluations.
 - (iii) The department shall disapprove the plan if it does not include all facilities or if the proposed duration and frequency will not provide for a reasonable assessment of compliance.
 - (iv) Upon approval of a steel mill's plan by the department, the visible emissions evaluations shall commence and the data submitted to the department within one (1) month of the end of the calendar quarter.
 - (v) The plan may be revised with department approval at any time.
- (4) Fuel combustion boilers, as described in subsection (I)(26)(A), shall comply as follows:
- (A) The requirements of this subdivision shall not relax the fuel monitoring and reporting requirements of 326 IAC 7-1.1-1 for the sources this section applies to.
 - (B) Affected sources shall maintain records of the following information:
 - (i) Operational status of each facility for each day.
 - (ii) The daily measurements for each facility of the type of fuel used, amount of each type of fuel used, and heat content of each type of fuel used.
 - (iii) The TSP or PM₁₀ emission factors for each type of fuel to be used as estimated by the AP-42 or stack test method.
 - (iv) The method used to monitor the fuel amount and heat content in addition to the frequency.

(v) The control efficiency of the particulate control device and the method of determination.

(vi) Average daily PM_{10} emissions (or TSP if applicable) for each facility, expressed in pounds per million British thermal units.

(C) The following guidance may be used to estimate emissions:

(i) For heat content Table A-3, "Typical Parameters of Various Fuels" AP-42, Volume 1, Fourth Edition, September 1985**, or the latest edition.

(ii) For emission factors (TSP or PM_{10}), EPA 450/4-90-003, "AIRS Facility Subsystem Source Classification Codes and Emission Factors Listing for Criteria Air Pollutants"***.

(iii) For control equipment efficiency, manufacturer's warranty or as determined by source.

(iv) Sources may substitute other site-specific values for the values as indicated if they can be shown to be acceptable to the department.

(q) This subsection concerns particulate matter control equipment operation and maintenance requirements. A CCP shall provide that the following control equipment related information will be maintained at the source's property and will be available for inspection by department personnel:

(1) Startup, shutdown, and emergency shutdown procedures.

(2) Sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made.

(3) Manufacturer's recommended inspection procedures, preventive and corrective maintenance procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If manufacturer's recommendations are not available, procedures shall be developed by the source.

(4) Contents of the operator's training program and the frequency with which the training is held.

(5) A list of spare parts available at the facility.

(6) A list of control equipment safety devices, for example, high temperature sensors and alarm systems, exhaust gas stream bypass system, or safety interlock system.

(7) Monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters specified in subsection (n)(4).

(r) Particulate matter control equipment operation, recording, and inspection procedure requirements shall be as follows:

(1) A CCP for a facility controlled with a baghouse shall include the recording, inspection, and maintenance procedures to be consistent with the requirements of subsection (m), such as the following:

(A) Operating parameters, such as the following:

(i) Pressure drop across the baghouse.

(ii) Gas flow rate at baghouse inlet.

(iii) Gas temperatures at inlet.

A CCP shall identify the monitors and instrumentation, and their location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emission evaluation program.

(B) Baghouse cleaning system. A complete description of the cleaning system, including such information as intensity, duration, frequency, and method of activation.

(C) Baghouse inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:

(i) Daily inspections shall include the following:

(AA) Pressure drop.

(BB) Fan amperage.

(CC) Cleaning cycle.

(DD) Compressed air on pulse jet baghouses for values outside of the operating ranges.

(EE) Dust discharge equipment for proper operation.

(FF) General check for abnormal audible and visual conditions.

(ii) Weekly inspections of the following:

(AA) Moving parts on discharge system.

(BB) Bypass and isolation damper operation.

(CC) Bag tension.

(DD) Compressed air lines, oilers, and filters.

(EE) Manometer lines.

(FF) Temperature indicating equipment.

(GG) Bag cleaning sequence.

(HH) Drive components on fans.

(iii) Monthly inspections of the following:

(AA) Bag seating condition.

(BB) Moving parts on shaker baghouses.

(CC) Fan corrosion and blade wear.

(DD) Hoses and clamps.

(EE) Bags for leaks and holes.

(FF) Bag housing for corrosion.

(iv) Quarterly inspections of the following:

(AA) Bags.

(BB) Ducts for dust build-up.

(CC) Damper valves for proper setting.

(DD) Door gaskets.

(EE) Baffle plate for wear.

(v) Annual inspection of the following:

- (AA) Welds and bolts.
 - (BB) Hoppers for wear.
 - (CC) Cleaning parts for wear.
- (2) A CCP for a facility controlled by an electrostatic precipitator (ESP) shall include recording, inspection, and maintenance procedures to be consistent with the requirements of subsection (m), such as the following:
- (A) Operating parameters, such as the following:
 - (i) Gas flow rate.
 - (ii) Temperature.
 - (iii) Type and rate of gas conditioning agents used for resistivity control or resistivity measurements.
 - (iv) Power input at each section of the ESP. A CCP shall identify monitors and instrumentation and specify location, accuracy, precision, and calibration frequency. A CCP shall also include a description of any visible emissions evaluation program.
 - (B) ESP inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:
 - (i) Daily inspection of the following:
 - (AA) Fan amperage.
 - (BB) Temperature.
 - (CC) Gas conditioning agent flow rate or resistivity.
 - (DD) Electrical readings for values outside the operating range.
 - (EE) Hoppers and dust discharge system for proper operation.
 - (FF) Transformer-rectifier enclosures and bus ducts for abnormal arcing.Corrective actions taken, if any, shall be recorded.
 - (ii) Weekly inspection of the following or as per manufacturer's recommendations:
 - (AA) Rapper operation.
 - (BB) Control set interiors.
 - (iii) Monthly inspection of the following:
 - (AA) Fans for noise and vibration.
 - (BB) Hopper heaters.
 - (CC) Hopper level alarm operation.
 - (iv) Quarterly inspection of the following:
 - (AA) Check rapper and vibrator switch contacts.
 - (BB) Access door dog bolt and hinges.
 - (CC) Interlock covers.
 - (DD) Test connectors.
 - (EE) Exterior for visual signs of deterioration.

- (FF) Abnormal vibration, noise, and leaks.
- (v) Semiannual inspection of the following, or as per manufacturer's recommendations:
 - (AA) T-R liquid and surge arrestor spark gap.
 - (BB) Conduct internal inspection.
 - (CC) Top housing or insulator compartment and all electrical insulating surfaces, and correct any defective alignment.
- (vi) Annual inspection of the following:
 - (AA) Tightness of all electrical connections.
 - (BB) Operation of switchgear.
 - (CC) Rapper insulator connections.
 - (DD) Observe and record areas of corrosion.
- (3) A CCP for a facility controlled by a scrubber shall include the recording, inspection, and maintenance procedures to be consistent with the objectives of subsection (m), such as the following:
 - (A) Operating parameters, such as the following:
 - (i) Gas flow rate.
 - (ii) Inlet and outlet temperatures of gas to and from scrubber.
 - (iii) Liquid flow rate to scrubber.
 - (iv) Pressure drop across scrubber.
 - (v) pH of liquid to scrubber.
 - (vi) Fan and pump currents.A CCP shall specify the location, accuracy, precision, and calibration frequency of monitors and instrumentation.
- (B) Scrubber inspection and maintenance schedule. The inspection schedule logs or records shall be available for inspection by the department for up to one (1) year after the date of inspection. The inspection shall include the activities and frequency of the activities. A source may request an alternative schedule based on manufacturer's recommendations or alternatives documented by the company. The revised schedule must be approved by the department. Inspections shall include the following:
 - (i) Daily inspection of the following:
 - (AA) Scrubbing liquid flow rates to scrubber.
 - (BB) Pressure drop across scrubber.
 - (CC) Fan and pump amperages for values outside the operating range.Corrective actions taken shall be recorded.
 - (ii) Monthly inspection of the following:
 - (AA) Seals for abrasion.
 - (BB) Corrosion and leaks.
 - (CC) Fans for abrasion, corrosion, and solids build-up.
 - (DD) Pipes for abrasion, corrosion, and plugging.
 - (EE) Throat wear in the venturi scrubber.
 - (FF) Sensors, alarm systems, and bypass devices for proper operation.

(GG) Entrainment separator for blockage.

(HH) Spray nozzles for plugging or excessive wear.

(s) The department shall review the CCP. The department may at any time request, in writing, any of the following:

(1) A CCP to be revised to include additional documentation or practices as needed to allow the department to verify that operation and maintenance practices critical to continuous compliance with the applicable mass and opacity limits are being followed.

(2) A compliance test to be conducted with the compliance test methods specified in this section if the department determines that the procedures specified in the CCP are not being followed or are inadequate to assure continuous compliance. The compliance test may consist of a series of opacity measurements of frequency and duration specified by the department or a stack test. The department may request that information be collected during the test to determine proper operation and maintenance procedures needed to assure continuous compliance with applicable mass and opacity limits.

(t) The source shall respond, in writing, within thirty (30) days of a request per subsection (s). The source shall either provide an expeditious schedule, not to exceed sixty (60) days, for providing the information requested by the department or petition the department for an alternative to the request. A schedule for completion of an opacity compliance test shall not exceed thirty (30) days from the department's request. A source may petition the department for an alternative schedule based on practical problems in meeting the request.

(u) The source shall update the CCP, as needed, retain a copy of any changes and updates to the CCP on the property, and make the updated CCP available for inspection by the department. The source shall submit the updated CCP, if required, to the department within thirty (30) days of the update.

(v) Failure to submit a CCP, maintain all information required by the CCP on plant property, or submit a required update to a CCP is a violation of this section. Failure to respond to a request by the department under subsection (s) is a violation of this section. The department may notify a source in writing of noncompliance with an action or procedure specified within a CCP and require that the source conduct a compliance test. If the compliance test demonstrates noncompliance with the applicable particulate matter or opacity limit, both the findings of noncompliance of the CCP and the compliance test shall be considered as violations of the applicable mass or opacity limit. A violation of an applicable particulate matter or opacity limit of this section, based either on a compliance test performed by the source or by observations or tests conducted by the department, is a violation of this section.

* Copies of the Code of Federal Regulations have been incorporated by reference and are available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402 or the Indiana Department of Environmental Management, Office of Air Management.

** Copies of AP-42 and supplements are available for purchase from the U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711 or can be reviewed at the Indiana Department of Environmental Management, Office of Air Management.

*** Copies of the EPA guidance documents are available from the U.S. EPA, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711 or the Indiana Department of Environmental Management, Office of Air Management. (*Air Pollution Control Board; 326 IAC 6-1-10.1; filed May 12, 1993, 11:30 a.m.: 16 IR 2368; filed Mar 2, 1998, 8:30 a.m.: 21 IR 2354*)

SECTION 2. 326 IAC 7-4-1.1, AS AMENDED AT 21 IR 2729, SECTION 1, IS AMENDED TO READ AS FOLLOWS:

326 IAC 7-4-1.1 Lake County sulfur dioxide emission limitations

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 1.1. (a) All fossil fuel-fired combustion sources and facilities subject to 326 IAC 7-1.1 located in Lake County shall burn natural gas only, unless an alternative sulfur dioxide emission limit is provided in subsection (b) or (c). A facility subject to 326 IAC 7-1.1, but not located at a source specifically listed in subsection (b) or (c), may burn distillate oil with sulfur dioxide emissions limited to three-tenths (0.3) pounds per million Btu if the fuel combustion unit has a maximum capacity of less than twenty (20) million Btu per hour actual heat input.

(b) The following sources and facilities located in Lake County shall burn natural gas or distillate oil, and sulfur dioxide emissions shall be limited to three-tenths (0.3) pounds per million Btu:

- (1) American Can Co.) coil coating oven and three (3) incinerators.
- (2) American Steel-Hammond) furnaces; Boiler 4-5509.
- (3) C & A Wallcovering) boiler.
- (4) Keil Chemical) Boilers B-3, B-4, and B-5.
- (5) Keyes Fibre) FM boiler.
- (6) National Briquette) dryer.
- (7) U.S. Gypsum) perlite expander burner, gypsum calcining kettle.
- (8) U.S. Reduction) preheat melting pot exhaust, reverberatory furnaces 1-5.

(c) The following sources and facilities located in Lake County shall comply with the sulfur dioxide emission limitations in pounds per million Btu, unless otherwise specified, and other requirements:

<u>Source</u>	<u>Facility Description</u>	<u>Emission Limitations</u>
(1) AMAIZO	(A) Boilers 6, 7, 8, and 10	2.07 each (784 pounds per hour total)
	(B) Record keeping requirements: (i) AMAIZO shall maintain records of average sulfur content, fuel oil usage, and boiler operating load for each hour in which any boiler operates on fuel oil. (ii) AMAIZO shall submit a report to the department within thirty (30) days after the end of each calendar quarter containing the records listed in this clause and a calculation of the total sulfur dioxide emissions from all boilers for each hour.	
(2) AMOCO	(A) No. 1 Power Station Boilers 1, 2, 3, 4, 5, 6, and 7: Prior to September 1, 1990	0.395 each
	On and after September 1, 1990	0.2 each
	(B) No. 1 Power Station Boiler 8: Prior to September 1, 1990	0.395
	On and after September 1, 1990	0.033
	(C) No. 3 Power Station Boilers 1, 2, 3, 4, and 6	0.4
	(D) No. 11 Pipe Still: H-1X Heater	0.407
	H-2 Vacuum Heater	0.418
	H-3 Vacuum Heater	0.404
	H-101, 102, 103, and 104 Coker Preheaters	0.033 each
	H-200 Crude Charge	0.411
	H-300 Furnace	0.402
	(E) No. 12 Pipe Still: H-1A, H-1B Preheaters, and H-2 Vacuum Heater	0.32 each
	H-1CN, H-1CX, and H-1CS Crude Preheaters	0.033 each
	(F) No. 2 Isomerization: H-1 Feed Heater Furnace	0.034
	F-7 Furnace	0.035
	(G) No. 3 Ultraformer: H-1 Feed Heater Furnace	0.033
	H-2 Feed Heater Furnace	0.034
	F-7 Furnace	0.035
	Waste Heat Recovery	0.033
	(H) No. 4 Ultraformer: F-1 Ultrafiner Furnace	0.034
	F-8A and F-8B Reboilers, F-2 Preheat Furnace, F-3 No. 1 Reheat Furnace, F-4, F-5, and F-6 Reheat Furnaces, and F-7 Furnace	0.033 each
	(I) Aeromatic Recovery Unit F-200A and F-200B Furnace	0.035
	(J) Blending Oil Desulfurization Furnace F-401	0.034
	(K) No. 1 CRU F-101 Feed Preheater, F-102 Stripper Reboiler, F-201 Steam Superheater, and F-202 Butamer Superheater	0.04 each
	(L) FCU 500	50.0 pounds per ton coke burned
	(M) FCU 600	35.0 pounds per ton coke burned

(N) No. 37 Pipe Still:	
B-1 Feed Preheater	0.223
B-2 Wax Fractioner	0.223
(O) NMP Extraction Unit:	
B-105 Furnace	0.29
B-106 Furnace	0.034
(P) Wastewater Sludge Fluid Bed Incinerator	0.05 pounds per ton feed material
(Q) Oil Hydrotreating Unit	0.04
(R) Asphalt Oxidizer No. 1 Incinerator	0.002 pounds per ton feed material
(S) Asphalt Oxidizer No. 2 Incinerator	0.168 pounds per ton feed material
(T) Asphalt Oxidizer No. 3 Incinerator	0.16 pounds per ton feed material
(U) Cat Feed Hydrotreating Unit	0.035
(V) Tail Gas Unit	18.83 pounds per ton feed material
(W) Heavy Oils Unit H-101, H-201, H-202	0.04 each
(X) Sulfur Recovery Unit Incinerator	0.033
(Y) F-1 Berry Lake Distillate Heater	0.033
(Z) F-100 Marine Docks Distillate Heater	0.013
(AA) F-2 Steiglitz Park Residual Heater	0.328
(BB) Grease Works Heater	0.034
(CC) Record keeping requirements:	
(i) AMOCO shall maintain daily records of fuel type, average sulfur content for each fuel type, average fuel gravity for each fuel type, and total fuel usage for each type for the No. 1 Power Station, the No. 3 Power Station, the NMP Extraction Unit, the No. 11 Pipe Still, the No. 12 Pipe Still, and the No. 37 Pipe Still.	
(ii) AMOCO shall maintain records of daily fuel type, average sulfur content, and average fuel gravity for each facility specified in this subdivision with sulfur dioxide emission limitations less than four-hundredths (0.04) pounds per million Btu.	
(iii) AMOCO shall maintain records of daily calculated coke burn and sulfur content of the oil feed for the FCU 500 and FCU 600 and of Claus Train sulfur production, average hydrogen sulfide to sulfur dioxide ratio, fuel gas burned at the incinerator, and total sulfur content of the Tail Gas Unit effluent.	
(iv) AMOCO shall submit a report to the department within thirty (30) days after the end of each calendar quarter containing the average daily sulfur dioxide emission rate for the facilities specified in items (i) through (iii). AMOCO shall also submit to the department the total daily fuel usage for each fuel type for the No. 1 Power Station, the No. 3 Power Station, the No. 11 Pipe Still, and the No. 12 Pipe Still and the total daily calculated sulfur dioxide emissions from the FCU 500 and FCU 600 in the quarterly report required under this item.	

(3) Associated Box	Space Heating Boiler	0.03
(4) Bucko Construction	Rotary Dryer	0.07 pounds per ton
(5) Commonwealth Edison	(A) Auxiliary Emergency Generator	0.3
(6) East Chicago Incinerator	(B) Boilers 1-3 and 1-4 Incinerator Units	1.2 each 2.5 pounds per ton municipal waste per unit
(7) Georgia Pacific	Boiler 1	1.2
(8) Harbison Walker	Tunnel Kilns 1 and 2	0.03 (0.28 pounds per ton each)
(9) Horace Mann School	3 Boilers	6.0 each
(10) Inland Steel	<p>(A) Prior to January 1, 1992, Inland Steel shall comply with the sulfur dioxide emission limitations in pounds per million Btu, unless otherwise specified, and other requirements as follows:</p> <p>(i) 76 inch Hot Strip Mill Reheat Furnaces 1, 2, and 3, 12 inch Bar Mill Reheat Furnace, and No. 3 Cold Strip Annealing 5 and 6 natural gas only</p> <p>(ii) No. 1 and 2 Blast Furnace Stoves 0.08 each</p> <p>(iii) No. 5 and 6 Blast Furnace Stoves 0.625</p> <p>(iv) No. 7 Blast Furnace Stoves 0.146 (121 pounds per hour)</p> <p>(v) `A' and `B' Blast Furnace Stoves 0.612 each</p> <p>(vi) No. 6, 7, 8, 9, and 10 Coke Battery Underfire Stacks 2.245 each</p> <p>(vii) No. 11 Coke Battery Underfire and Ammonia Destruct Device 1.086</p> <p>(viii) No. 11 Coke Battery Preheaters 1 and 2 0.335 each</p> <p>(ix) No. 5 Boilerhouse Boilers 501, 502, and 503 0.104</p> <p>(x) 2AC Station Boilers 207, 208, 209, 210, 211, 212, and 213 0.228 each</p> <p>Only five (5) of the seven (7) 2AC Station Boilers may operate at the same time.</p> <p>(xi) 3AC Station Boilers 301, 302, 303, 304, and 305 0.757 each</p> <p>(xii) 4AC Station:</p> <p>(AA) Stack 1 (Boilers 401 and 402) and Stack 2 (Boilers 403 and 404) 1.5 per stack</p> <p>(BB) Stack 3 (Boiler 405) 1.0</p> <p>(CC) Sulfur dioxide emissions from Stacks 1, 2, and 3 shall be limited in accordance with the following equation in units of pounds per million Btu:</p> $(\text{Stack 1} + \text{Stack 2})/2 + 0.425 \times \text{Stack 3} \leq 1.6$ <p>If any one (1) of Boilers 401 through 405 is not operating for a given calendar day, the pounds per million Btu for Stack 3 for the purposes of the equation in this subitem is twenty-four hundredths (0.24) pounds per million Btu.</p>	

(DD) Inland Steel shall maintain and operate sulfur dioxide continuous emission monitoring systems (CEMS) in Stacks 1, 2, and 3. CEMS data shall be used to determine compliance and to determine the sulfur dioxide emission rate in pounds per million Btu for the report required under clause (D)(iii). The CEMS shall be operated in accordance with the procedures specified in 326 IAC 3-1.1, and records of hourly emissions data shall be maintained and made available to the department upon request.	
(xiii) Sinter Plant Windbox	167 pounds per hour
(xiv) 100 inch Plate Mill Reheat Furnace	0.851
(xv) Lime Plant Firing	0.46
(xvi) No. 4 Slabber Soaking Pits 1-45	1.914
(xvii) No. 2 Bloomer Mill Soaking Pits 1-20	1.96
(xviii) 10 inch Bar Mill Reheat Furnace	0.0
(xix) 80 inch Hot Strip Mill Reheat Furnaces 1, 2, 3, and 4:	
Prior to May 31, 1990	0.492 each
After May 31, 1990	natural gas only
(xx) 28 inch Bar Mill Reheat Furnaces 2, 3, and 4	1.96 each
Only two (2) of three (3) furnaces may operate at the same time.	
(xxi) No. 2 Cold Strip Annealing Furnaces 3 and 4	1.96
(B) By January 1, 1992, Inland Steel shall construct and begin operation of a coke oven gas desulfurization facility at Plant 2 in order to achieve the emission limitations in clause (C), according to the following schedule:	
<u>Compliance Element</u>	<u>Completion Deadline</u>
(i) Complete engineering	July 31, 1990
(ii) Purchase major equipment	September 30, 1990
(iii) Begin construction	January 31, 1991
(iv) Complete construction	October 31, 1991
(v) Start up facility	November 30, 1991
(vi) Test facility performance	December 31, 1991
(C) Beginning January 1, 1992, Inland Steel shall comply with the sulfur dioxide emission limitations in pounds per million Btu, unless otherwise specified, and other requirements as follows:	
(i) 76 inch Hot Strip Mill Reheat Furnaces 1, 2, and 3, 12 inch Bar Mill Reheat Furnace, and No. 3 Cold Strip Annealing 5 and 6	natural gas only
(ii) No. 1 and 2 Blast Furnace Stoves	0.08 each
(iii) No. 5 and 6 Blast Furnace Stoves	0.140 each
(iv) No. 7 Blast Furnace Stoves	0.146
(v) `A' and `B' Blast Furnace Stoves	0.138 each
(vi) No. 6, 7, 8, 9, and 10 Coke Battery Underfire Stacks	0.51 each
(vii) No. 6 Coke Battery Underfire	82.1 pounds per hour
(viii) No. 11 Coke Battery Underfire and Ammonia Destruct Device	1.086 (352.9 pounds per hour)
(ix) No. 11 Coke Battery Preheaters 1 and 2	0.335 each (26.8 pounds per hour total)
(x) No. 5 Boilerhouse Boilers 501, 502, and 503	0.104
(xi) 2AC Station Boilers 207, 208, 209, 210, 211, 212, and 213	0.228

- Only five (5) of the seven (7) 2AC Station Boilers may operate at the same time.
- (xii) 3AC Station Boilers 301, 302, 303, 304, and 305 0.170 each
- (xiii) 4AC Station:
- (AA) Stack 1 (Boilers 401 and 402) and Stack 2 (Boilers 403 and 404) 1.5 per stack
- (BB) Stack 3 (Boiler 405) 1.0
- (CC) Sulfur dioxide emissions from Stacks 1, 2, and 3 shall be limited in accordance with the following equation in units of pounds per million Btu:

$$(\text{Stack 1} + \text{Stack 2})/2 + 0.425 \times \text{Stack 3} \leq 1.6$$
 If any one (1) of Boilers 401 through 405 is not operating for a given calendar day, the pounds per million Btu for Stack 3 for the purposes of the equation in this subitem is twenty-four hundredths (0.24) pounds per million Btu.
- (DD) Inland Steel shall maintain and operate sulfur dioxide continuous emission monitoring systems (CEMS) in Stacks 1, 2, and 3. CEMS data shall be used to determine compliance and to determine the sulfur dioxide emission rate in pounds per million Btu for the report required under clause (D)(iii). The CEMS shall be operated in accordance with the procedures specified in 326 IAC 3-1.1, and records of hourly emissions data shall be maintained and made available to the department upon request.
- (xiv) Sinter Plant Windbox 167 pounds per hour
- (xv) 100 inch Plate Mill Reheat Furnace 0.851
- (xvi) Lime Plant Firing 0.46
- (xvii) No. 4 Slabber Soaking Pits 1-45 0.285
- (xviii) No. 2 Bloomer Mill Soaking Pits 1-20 0.286
- (xix) 10 inch Bar Mill Reheat Furnace 0.0
- (xx) 80 inch Hot Strip Mill Reheat Furnaces 1, 2, 3, and 4 natural gas only
- (xxi) 28 inch Bar Mill Reheat Furnaces 2, 3, and 4 0.286 each
- Only two (2) of three (3) furnaces may operate at the same time.
- (xxii) No. 2 Cold Strip Annealing Furnaces 3 and 4 0.286
- (D) Record keeping requirements:
- (i) Inland Steel shall maintain records of the total Plant 2 coke oven gas, Coke Battery 11 coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in clause (A) or (C).
- (ii) Inland Steel shall maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter and of the operational status of 2AC Station Boilers 207, 208, 209, 210, 211, 212, and 213, 4AC Station Boilers 401, 402, 403, 404, and 405, and the twenty-eight (28) inch Bar Mill reheat furnaces.

	(iii) Inland Steel shall submit to the department within thirty (30) days of the end of each calendar quarter the calculated sulfur dioxide emission rate in pounds per million Btu for each facility for each day during the calendar quarter, the total fuel usage for each type at each facility for each day, and any violations of clauses clause (A)(x), (A)(xx), (C)(xi), or (C)(xxi).	
(11) Kaiser	Rotary Kiln	21.6 pounds per ton of coke
(12) Lehigh Portland Cement	KKI Calcinator Aluminate Kiln	7.0 pounds per ton of process material
(13) Lever Brothers	(A) Boilers 2, 3, and 4	1.52 each
	(B) Dowtherm Boiler, Defi Process	1.6
	(C) Sulfonation Process	3.1 pounds per ton process material
	(D) Dowtherm Boiler, Detergent Bar Soap	0.087
(14) LTV Steel	(A) Utility Boilers:	
	(i) No. 3, 4, 5, 6, 7, and 8	0.896 each
	(ii) Total actual heat input from fuel oil and/or desulfurized coke oven gas usage at all boilers combined shall not exceed nine hundred ninety-three (993) million Btu per hour.	
	(iii) Boilers shall be fired on fuel oil, blast furnace gas, desulfurized coke oven gas, and natural gas only.	
	(iv) Fuel oil burned shall not exceed one and three-tenths percent (1.3%) sulfur and one and thirty-five hundredths (1.35) pounds per million Btu.	
	(B) Hot Strip Mill Slab Heat Reheat Furnaces 1, 2, and 3	1.254 each (535.1 pounds per hour each)
	(C) Sinter Plant Windbox	1.0 pound per ton and 240 pounds per hour
	(D) No. 1, 2, 3, and 4 Blast Furnace Stoves	0.024 each
	(E) No. 2 Sheet Mill Crimson Boilers 7 and 8 and No. 2 Slab Mill Furnaces	natural gas only
	(F) No. 3, 4, and 9 Coke Battery Underfire Stacks	0.177 each
	(G) Record keeping requirements:	
	(i) LTV shall maintain records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in clauses (A) through (F).	
	(ii) LTV shall maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter.	
	(iii) LTV shall submit to the department within thirty (30) days of the end of each calendar quarter the calculated sulfur dioxide emission rate in pounds per million Btu for each facility for each day during the calendar quarter and the total fuel usage for each type at each facility for each day.	
(15) Marblehead Lime	(A) Rotary Kilns 1-5	240 pounds per hour total (80 pounds per hour for any one (1) kiln)

(B) Sulfur dioxide emissions shall be vented from the kilns/kiln gas filter systems at the following heights above grade:

	<u>Kiln Number</u>	<u>Stack Height (in feet)</u>
	(i) Kiln No. 1	80
	(ii) Kiln No. 2	87
	(iii) Kiln No. 3	87
	(iv) Kiln No. 4	95
	(v) Kiln No. 5	89
(16) Methodist Hospital	Boiler 1	0.61
(17) NIPSCo Mitchell	(A) Gas Turbines 9A, 9B, and 9C	natural gas only
	(B) Boilers 4, 5, 6, and 11	1.2 each
	<p>(i) Beginning December 31, 1989, one (1) of Boilers 4 or 5 shall burn natural gas only or shall not operate. Operation under either subitem (ii)(CC)(BB) or (ii)(DD)(CC) shall only be allowed provided that a nozzle is in the stack serving boiler numbers 4 and 5 such that the stack diameter is restricted to eight and three-tenths (8.3) feet.</p> <p>(ii) Sulfur dioxide emissions for boilers operating under the scenarios listed in subitems (BB)(AA), (CC)(BB), and (DD)(CC) shall be measured as a daily weighted average by the continuous emissions monitoring systems (CEMS) required in clause (D). NIPSCo may operate under any one (1) of the following scenarios:</p> <p><u>(AA) Boiler numbers 4 and 5 shall operate on natural gas.</u></p> <p><u>(BB)(AA) Boiler numbers 4, 5, 6, and 11 may operate simultaneously under the following conditions:</u></p> <p>(aa) One (1) of boiler number 4 or 5 may operate on coal if the other boiler is operated on natural gas or is not operating. Sulfur dioxide emissions from the stack serving boiler numbers 4 and 5 shall be limited to one and five-hundredths (1.05) pounds per million Btu and one thousand three hundred thirteen (1,313.0) pounds per hour.</p> <p>(bb) Boiler numbers 6 and 11 may operate simultaneously on coal. Sulfur dioxide emissions from the stack serving boiler numbers 6 and 11 shall be limited to one and five hundredths (1.05) pound per million Btu and two thousand four hundred seventy-five (2,475.0) pounds per hour.</p>	

~~(CC)~~**(BB)** Boiler numbers 4, 5, 6, and 11 may operate simultaneously on coal subject to the following conditions:

(aa) Sulfur dioxide emissions from the stack serving boiler numbers 4 and 5 shall be limited to seventy-seven hundredths (0.77) pound per million Btu and one thousand nine hundred twenty-five (1,925.0) pounds per hour.

(bb) Sulfur dioxide emissions from the stack serving boiler numbers 6 and 11 shall be limited to seventy-seven hundredths (0.77) pound per million Btu and one thousand eight hundred fifteen (1,815.0) pounds per hour.

~~(DD)~~**(CC)** One (1) set of either boiler numbers 4 and 5 or 6 and 11 may operate on coal, if the other set is not operating, subject to the following conditions:

(aa) Sulfur dioxide emissions from the stack serving boiler numbers 4 and 5 shall be limited to one and five-hundredths (1.05) pounds per million Btu and two thousand six hundred twenty-five (2,625.0) pounds per hour.

(bb) Sulfur dioxide emissions from the stack serving boiler numbers 6 and 11 shall be limited to one and five-hundredths (1.05) pounds per million Btu and two thousand four hundred seventy-five (2,475.0) pounds per hour.

(ii) (iii) NIPSCo shall maintain a daily log of the following for boiler numbers 4, 5, 6, and 11:

(AA) Fuel type. and

Operational Status. of Boilers 4 and 5.

(BB) Transition time of changes between or within operating scenarios.

The log shall be **maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.**

(iii) Beginning April 1, 1992, sulfur dioxide emission from Boilers 4, 5, 6, and 11 shall be limited to one and five-hundredths (1.05) pounds per million Btu on a daily weighted average as measured by the continuous emission monitoring systems (CEMS) required in clause (D). This sulfur dioxide emission limitation is in addition to the limitation contained in this clause.

(iv) Emission limits shall be maintained during transition periods within or between operating scenarios.

(C) Prior to September 30, 1990, NIPSCo shall install a nozzle in the stack serving Boilers 6 and 11 such that the stack diameter is restricted to eight and three-tenths (8.3) feet.

(D) Beginning May 31, 1992, NIPSCo shall maintain and operate CEMS in the stacks serving Boilers 4, 5, 6, and 11. The CEMS shall be operated in accordance with the procedures specified in 326 IAC 3-1.1, with the exception of the three (3) hour block period reporting requirements under 326 IAC 3-1.1-3(a). **and Records of daily average emissions data shall be maintained for a minimum of five (5) years and shall be made available to the department and U.S. EPA upon request.**

(E) NIPSCo shall submit a written report to the department within thirty (30) days after the end of each calendar quarter. The report shall contain the daily weighted average emission rate in units of pounds per million Btu as measured by the CEMS for each stack venting emissions from those boilers specified in clause (B). The hourly gross megawatt power production from the units connected to each stack may be used as the weighting factor in determining the daily weighted average. Records of the hourly gross megawatt power production shall be maintained for a period of two (2) **minimum of five (5) years** and **shall be made available to the department and U.S. EPA** upon request.

(D) Beginning May 31, 1992, NIPSCo shall maintain and operate CEMS in the stacks serving Boilers 4, 5, 6, and 11. The CEMS shall be operated in accordance with the procedures specified in 326 IAC 3-1.1, with the exception of the three (3) hour block period reporting requirements under 326 IAC 3-1.1-3(a), and records of daily average emissions data shall be maintained and made available to the department upon request.

(E) NIPSCo shall submit a written report to the department within thirty (30) days after the end of each calendar quarter. The report shall contain the daily weighted average emission rate in units of pounds per million Btu as measured by the CEMS for each stack venting emissions from those boilers specified in clause (B). The hourly gross megawatt power production from the units connected to each stack may be used as the weighting factor in determining the daily weighted average. Records of the hourly gross megawatt power production shall be maintained for a period of two (2) years and made available upon request.

(18) Premiere Candy Boilers 1 and 2

1.6 each

(19) Safety-Kleen Oil (A) Boilers SB-801, SB-820, SB-821, and SB-822 shall use natural gas only.
Recovery Company

(B) Process Heaters H-201 (45 MMBtu/hour), H-301 (19.5 MMBtu/hour), H-302 (16.5 MMBtu/hour), and H-303 (16.5 MMBtu/hour) shall use a combination of natural gas, #2 fuel oil equivalent, and off-gases. The combined sulfur dioxide emissions from these four (4) process heaters shall not exceed three-tenths (0.3) lb/MMBtu actual heat input. In addition, combined sulfur dioxide emissions from these four (4) process heaters shall not exceed fourteen (14) lbs/hour and sixty (60) tons/year.

(C) Process Heaters H-200 (84 MMBtu/hour) and H-701 (17 MMBtu/hour) shall use a combination of natural gas, #2 fuel oil equivalent, and off-gases. Sulfur dioxide emissions from these two (2) process heaters shall not exceed three-tenths (0.3) lb/MMBtu actual heat input. In addition, sulfur dioxide emissions from these two (2) process heaters shall not exceed fourteen (14) lbs/hour and sixty (60) tons/year.

(D) Process Heaters H-401 (15.3 MMBtu/hour), H-402 (19.3 MMBtu/hour), H-404 (10 MMBtu/hour), H-405 (10 MMBtu/hour), H-451 (16.3 MMBtu/hour), H-452 (10 MMBtu/hour), and H-453 (8 MMBtu/hour) shall use a combination of natural gas, #2 fuel oil equivalent, and off-gases. The combined sulfur dioxide emissions from these seven (7) process heaters shall not exceed three-tenths (0.3) lb/MMBtu actual heat input. In addition, combined sulfur dioxide emissions from these seven (7) process heaters shall not exceed sixteen and sixty-seven hundredths (16.67) lbs/hour and seventy (70) tons/year.

(20) Stauffer

(A) Spent Acid Regeneration Unit 4 (Unit 4) and Sulfuric Acid Production Unit 3 (Unit 3) shall comply with the emission limit equations and requirements below:

(i) $(\text{Unit 3}) + (\text{Unit 4}) \leq 782$ in units of pounds per hour, three (3) hour average.

(ii) $0.778 \times (\text{Unit 3}) + (\text{Unit 4}) \leq 32.7$, applies if Unit 4 is ≤ 6.15 pounds per ton daily average and package boiler burns natural gas only.

- (iii) $0.399 \times (\text{Unit 3}) + (\text{Unit 4}) \leq 19.6$, applies if Unit 4 is > 6.15 pounds per ton daily average and package boiler burns natural gas only.
- (iv) $0.778 \times (\text{Unit 3}) + (\text{Unit 4}) \leq 30.8$, applies if Unit 4 is ≤ 4.69 pounds per ton daily average and package boiler burns any distillate oil.
- (v) $0.399 \times (\text{Unit 3}) + (\text{Unit 4}) \leq 17.9$, applies if Unit 4 is > 4.69 pounds per ton daily average and package boiler burns any distillate oil.
- (vi) The equations in items (ii) through (v) are in units of pounds per ton and do not apply for days in which Unit 3 is not in operation.
- (vii) Compliance with the equations in items (ii) through (v) shall be determined based on daily average pounds per ton calculated from data reported as specified under clause (C). Compliance with the equation in item (i) shall be determined based on a three (3) hour average pounds per hour rate calculated from data reported as specified under clause (C).

(B) Preheater and Package Boiler 0.3 each
(C) Stauffer Chemical shall operate a continuous emission monitoring system (CEMS) in each stack serving Units 3 and 4. Stauffer Chemical shall submit a report to the department within thirty (30) days after the end of each calendar quarter. The report shall contain the following information:

- (i) Three (3) hour average sulfur dioxide emission rate in pounds per hour as measured by the CEMS from each of the two (2) facilities for each three (3) hour period during the calendar quarter in which the combined average emissions exceed the allowable rates specified in clause (A)(i).
- (ii) The daily average emission rate in units of pounds per ton as determined from CEMS and production data for Unit 3 and for Unit 4 for each day of the calendar quarter.
- (iii) The calculated total pounds per ton per the applicable equation in clause (A)(ii) through (A)(v) for each day of the calendar quarter. Stauffer Chemical shall maintain a log of the use of distillate oil on the preheater and the package boiler and shall submit the log to the department in the report required under this clause. The CEMS shall be operated in accordance with the procedures specified in 326 IAC 3-1.1, and records of hourly emissions data shall be maintained and made available to the department upon request.

(21) U.S. Reduction	Borings Dryer	3.33 pounds per ton
(22) USX	(A) Turbobl原因er Boilers 1, 2, 3, 4, 5, and 6	0.269 each
	(B) No. 4 Boilerhouse	0.219
	(C) Tin Mill Boilers 1, 2, 3, 4, and 5:	
	Prior to June 30, 1989	1.5 each
	On and after June 30, 1989	natural gas only
	(D) No. 2 Coke Plant Boilerhouse:	
	(i) Boilers 1 and 2	natural gas only
	(ii) Boilers 3, 4, 5, and 6	1.2 each
	(iii) Boilers 7 and 8	1.07 each
	(iv) Only four (4) of No. 2 Coke Plant Boilers may operate using coal or coke oven gas at the same time. If more than four (4) boilers are in operation, all but four (4) shall use natural gas.	
	(v) Prior to June 30, 1989, stacks serving Boilers 3, 4, 5, and 6 shall be no less than one hundred thirty-three (133) feet above grade.	
	(E) Coke Battery Underfire Stacks:	

- (i) No. 2, 3, 5, and 7 1.3 each
- (ii) No. 15 and 16 1.1 each
- (F) 46 inch Slab Mill Soaking Pits 2-15 0.772
- (G) 84 inch Hot Strip Mill:
 - (i) Actual heat input derived from coke oven gas and fuel oil shall not exceed a total of four hundred seventy-seven (477) million Btu per hour for Waste Heat Boiler 1 and Furnaces 1 and 2 combined and a total of five hundred seven (507) million Btu per hour for Waste Heat Boiler 2 and Furnaces 3 and 4 combined. The remainder of the actual heat input shall be obtained by burning natural gas. Total actual heat input shall not exceed four hundred forty (440) million Btu per hour for each furnace, one hundred seventy (170) million Btu per hour for Waste Heat Boiler 1, and two hundred (200) million Btu per hour for Waste Heat Boiler 2.
 - (ii) Waste Heat Boiler 1 and Furnaces 1 and 2 511.8 pounds per hour total
 - (iii) Waste Heat Boiler 2 and Furnaces 3 and 4 543.9 pounds per hour total
 - (iv) Fuel supplied to the furnaces (coke oven gas, fuel oil, and natural gas) shall not result in a sulfur dioxide emission rate exceeding four hundred forty-seven thousandths (0.447) pounds per million Btu actual heat input.
- (H) 160 inch/210 inch Plate Mill:
 - (i) Continuous Furnaces 0.772 each (183 pounds per hour each and 250 million Btu per hour each)
 - (ii) Plate Mill Batch Furnaces natural gas only (30 million Btu per hour each)
 - (iii) USX must notify the department in the event that the 46 inch Slab Mill Soaking Pits permanently cease operation. Subsequent to permanent shutdown of the 46 inch Slab Mill, sulfur dioxide emissions from the 46 inch Slab Mill Soaking Pits shall be limited to zero and zero-tenths (0.0) pounds per million Btu and sulfur dioxide emissions from the facilities at the 160 inch/210 inch Plate Mill Continuous Furnaces and Batch Furnaces 2, 3, and 4 shall be limited to one and seven-hundredths (1.07) pounds per million Btu each.
- (I) No. 3 Sinter Plant Windbox lines 1, 2, and 3 1.0 pounds per ton each
- Only two (2) of three (3) lines may operate at the same time.
- (J) No. 4, 6, 7, 8, and 13 Blast Furnace Stoves 0.002 each stack
 - (i) Only two (2) of three (3) stoves at each of the No. 4, 6, 7, and 8 Blast Furnaces may fire fuel simultaneously.
 - (ii) Only three (3) of the four (4) stoves at No. 13 Blast Furnace may fire fuel simultaneously.
- (K) Total actual heat input from coke oven gas, coal, and fuel oil usage at all facilities operating at USX shall not exceed two thousand seven hundred forty (2,740) million Btu per hour based on five hundred ten (510) million Btu per million cubic feet coke oven gas, twenty-six (26) million Btu per ton coal, and one hundred fifty (150) million Btu per thousand gallons of fuel oil. The sulfur dioxide emission rate from coke oven gas, except at the Coke Battery Underfire Stacks listed in clause (E), and from fuel oil shall not exceed one and seven-hundredths (1.07) pounds per million Btu.

(L) USX shall notify the department at least twenty-four (24) hours prior to operation of more than four (4) coke batteries. During periods when more than four (4) coke batteries are in operation, sulfur dioxide emissions from the No. 2 Coke Plant Boilers shall be limited to nine-tenths (0.9) pounds per million Btu each and the restriction on total actual heat input from coke oven gas, coal, and fuel oil usage specified in clause (K) shall be revised to three thousand three hundred twenty (3,320) million Btu per hour.

(M) Record keeping requirements:

(i) USX shall maintain records of the total coke oven gas, blast furnace gas, fuel oil, and natural gas usage for each day at each facility listed in clauses (A) through (K).

(ii) USX shall maintain records of the average sulfur content and heating value for each day for each fuel type used during the calendar quarter and of the actual heat input for facilities listed in clauses (G) through (H).

(iii) USX shall submit to the department within thirty (30) days of the end of each calendar quarter the calculated sulfur dioxide emission rate in pounds per million Btu, or in pounds per hour for facilities listed in clause (G), for each facility for each day during the calendar quarter, the total fuel usage for each type at each facility for each day, and any violations of clauses (D)(iv), (G)(i), (H)(i), (H)(ii), (I), (J)(i), (J)(ii), (K), or

~~(M)~~: **this clause.**

(d) Sources listed in subsection (c)(1) through (c)(2), (c)(10), (c)(14) through (c)(15), and (c)(21) shall submit a sampling and analysis protocol to the department by December 31, 1988. The protocol shall contain a description of planned procedures for sampling of sulfur-bearing fuels and materials, for analysis of the sulfur content, and planned direct measurement of sulfur dioxide emissions vented to the atmosphere. The protocol shall specify the method of sampling, analysis, and/or measurement for each fuel and material and for each facility. The department shall incorporate the protocol into the source's operation permit per procedures specified in 326 IAC 2. The department may revise the protocol as necessary to establish acceptable sampling, analysis, and/or measurement procedures and frequencies. The department may also require that a source conduct a stack test at any facility listed in this section within thirty (30) days of written notification by the department. (*Air Pollution Control Board; 326 IAC 7-4-1.1; filed Aug 8, 1991, 10:00 a.m.: 14 IR 2206; filed Mar 24, 1998, 4:35 p.m.: 21 IR 2729*)